

Data File : VU034886.D
Acq On : 30 Sep 2019 18:29
Operator : JC/SP
Sample : VSTD10035
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

Quant Time: Oct 01 02:40:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	340505	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	334234	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	160579	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	235301	71.78	ug/L	0.00
7) Chloroethane-d5	1.67	69	199510	78.06	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	420433	75.06	ug/L	0.00
21) 2-Butanone-d5	4.15	46	505714	195.15	ug/L	0.00
24) Chloroform-d	4.62	84	479868	96.38	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	341857	93.17	ug/L	0.00
32) Benzene-d6	5.32	84	924913	91.17	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	315921	89.93	ug/L	0.00
41) Toluene-d8	7.54	98	881764	91.94	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	153226	91.97	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	338645	192.84	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	464871	94.15	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	317424	94.76	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	190181	58.798	ug/L	99
3) Chloromethane	1.32	50	163500	43.637	ug/L	98
5) Vinyl chloride	1.40	62	167747	48.795	ug/L	99
6) Bromomethane	1.61	94	85797	45.987	ug/L	97
8) Chloroethane	1.68	64	106570	53.446	ug/L	100
9) Trichlorofluoromethane	1.87	101	250869	56.492	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	157271	71.550	ug/L	100
12) 1,1-Dichloroethene	2.27	96	126221	61.622	ug/L	90
13) Acetone	2.31	43	356524	122.790	ug/L	98
14) Carbon disulfide	2.46	76	207408	32.067	ug/L	100
15) Methyl Acetate	2.60	43	303761	77.006	ug/L	100
16) Methylene chloride	2.68	84	181997	68.568	ug/L	97
17) trans-1,2-Dichloroethene	2.96	96	133472	59.812	ug/L	94
18) Methyl tert-butyl Ether	2.98	73	733215	83.918	ug/L	99
19) 1,1-Dichloroethane	3.42	63	380362	71.949	ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	195534	72.556	ug/L	97
22) 2-Butanone	4.23	43	510804	146.928	ug/L	99
23) Bromochloromethane	4.52	128	91109	70.922	ug/L	97
25) Chloroform	4.65	83	411255	77.743	ug/L	100
27) 1,2-Dichloroethane	5.38	62	333537	74.358	ug/L	99
29) Cyclohexane	4.97	56	243860	49.396	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	317304	73.253	ug/L	99
31) Carbon tetrachloride	5.11	117	249533	68.794	ug/L	97
33) Benzene	5.37	78	721189	66.810	ug/L	100
34) Trichloroethene	6.16	95	176888	66.126	ug/L	97
35) Methylcyclohexane	6.39	83	228693	52.159	ug/L	99
37) 1,2-Dichloropropane	6.41	63	241450	74.021	ug/L	99
38) Bromodichloromethane	6.73	83	319202	79.825	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	363461	74.016	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	1014497	160.839	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.61	91	780878	67.059	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	341015	77.738	ug/L	100
45) 1,1,2-Trichloroethane	8.04	97	226457	84.328	ug/L	98
46) Tetrachloroethene	8.21	164	115109	61.857	ug/L	96
48) 2-Hexanone	8.34	43	766725	156.856	ug/L	98
49) Dibromochloromethane	8.45	129	248887	83.780	ug/L	99
50) 1,2-Dibromoethane	8.56	107	218344	77.317	ug/L	98
51) Chlorobenzene	9.10	112	518294	72.016	ug/L	97
52) Ethylbenzene	9.23	91	922175	69.750	ug/L	100
53) m,p-Xylene	9.35	106	324915	69.782	ug/L	97
54) o-xylene	9.76	106	341919	73.479	ug/L	97
55) Styrene	9.77	104	611803	77.255	ug/L	100
56) Isopropylbenzene	10.14	105	956311	75.699	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.43	83	458824	88.390	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	363761	86.523	ug/L	99
61) Bromoform	9.94	173	187294	87.313	ug/L	97
62) 1,3-Dichlorobenzene	11.39	146	425649	79.115	ug/L	99
63) 1,4-Dichlorobenzene	11.48	146	424774	77.639	ug/L	97
65) 1,2-Dichlorobenzene	11.85	146	450207	81.920	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.63	75	105948	90.671	ug/L	99
67) 1,3,5-Trichlorobenzene	12.86	180	306839	83.937	ug/L	99
68) 1,2,4-trichlorobenzene	13.48	180	270994	94.842	ug/L	97
69) Naphthalene	13.72	128	993440	100.795	ug/L	100
70) 1,2,3-Trichlorobenzene	13.96	180	283330	95.215	ug/L	99

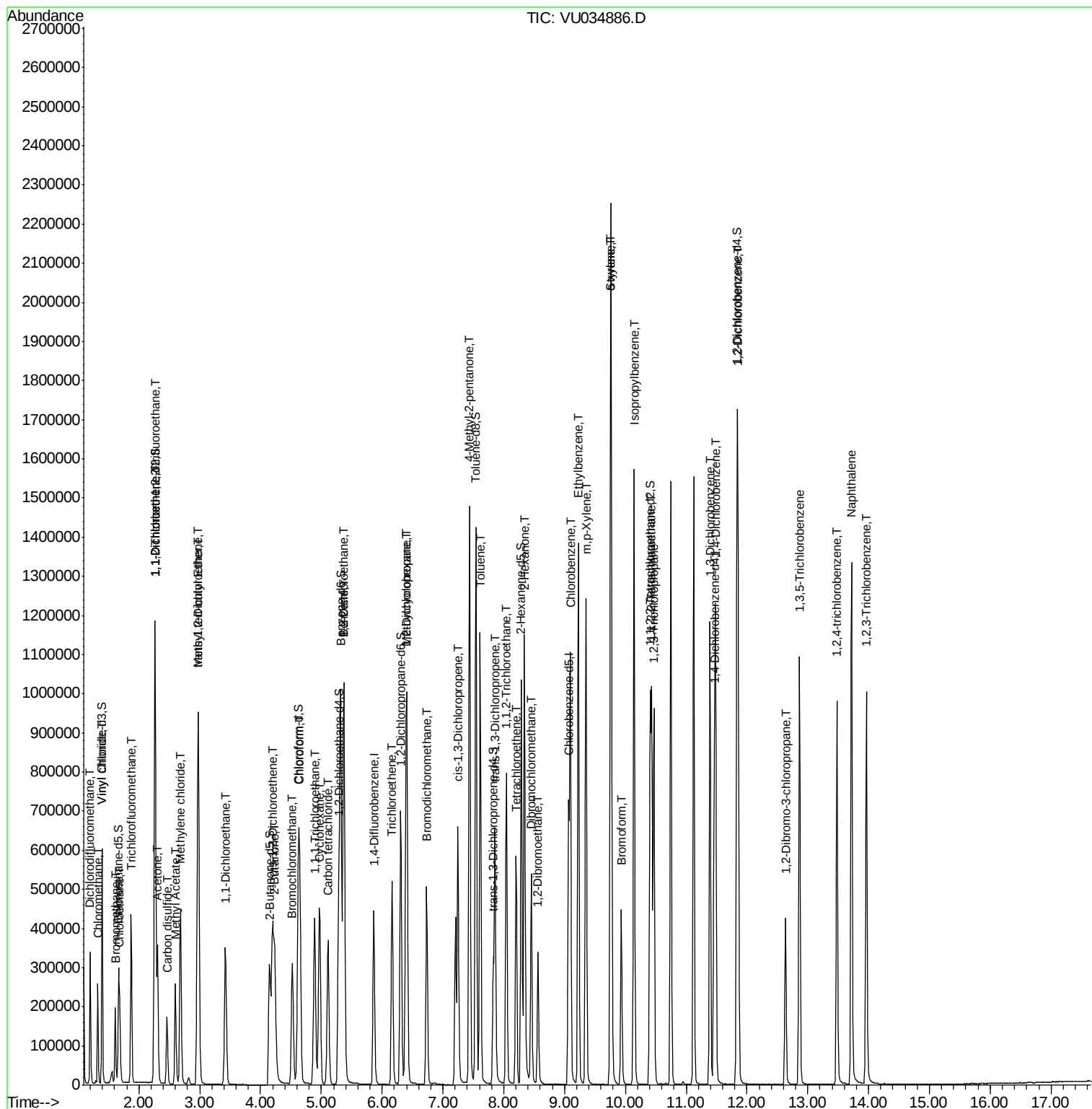
(#) = qualifier out of range (m) = manual integration (+) = signals summed

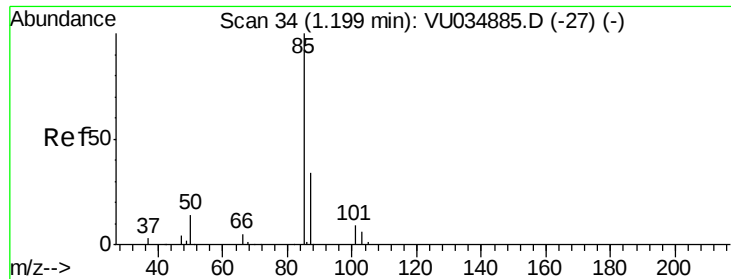
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#2

Dichlorodifluoromethane

Concen: 58.798 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

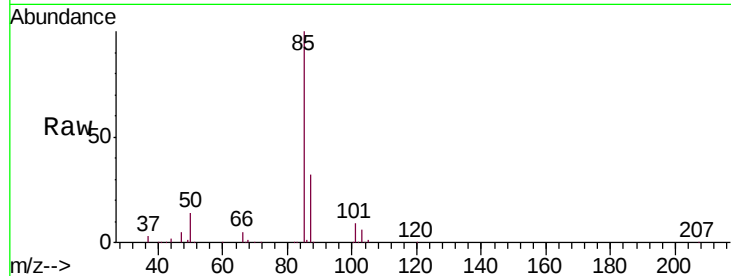
VSTD10035

Tgt Ion: 85 Resp: 190181

Ion Ratio Lower Upper

85 100

87 32.3 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) (-)

1.20

200000

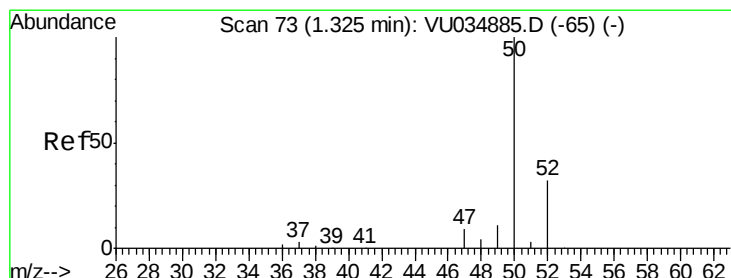
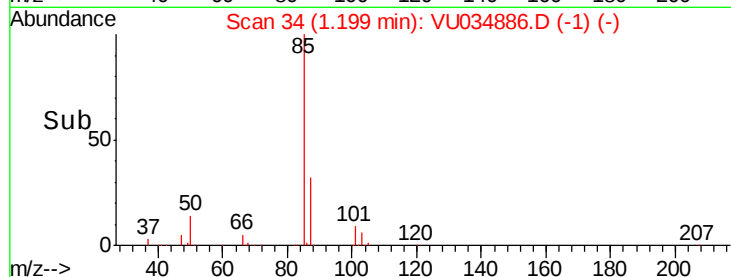
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 43.637 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU034886.D

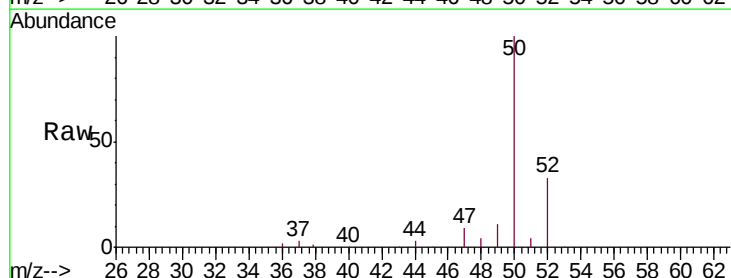
Acq: 30 Sep 2019 18:29

Tgt Ion: 50 Resp: 163500

Ion Ratio Lower Upper

50 100

52 33.0 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) (-)

1.32

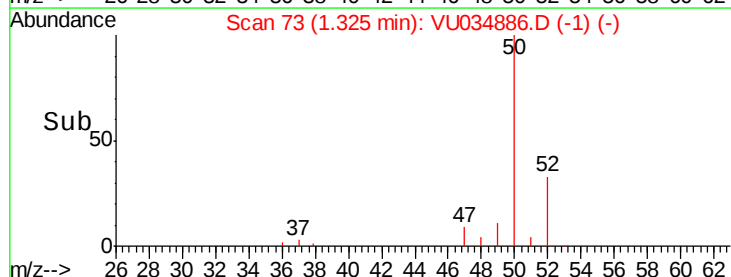
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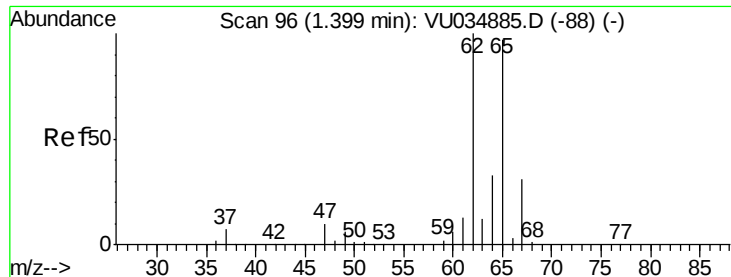
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 48.795 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

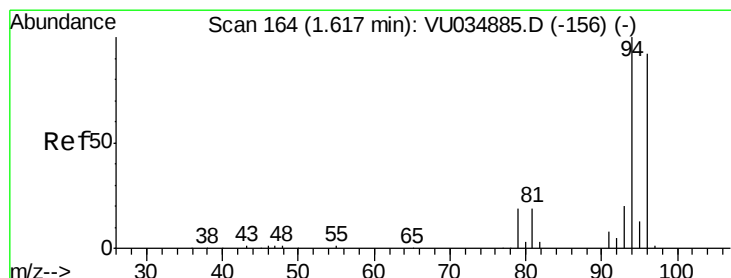
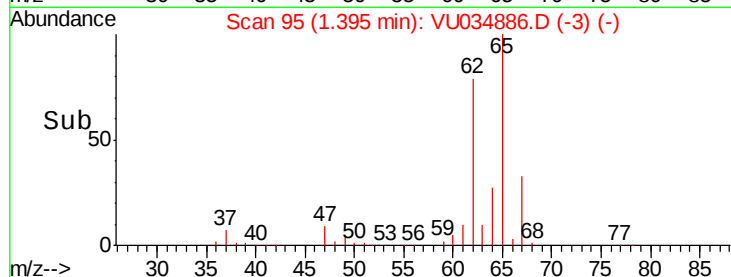
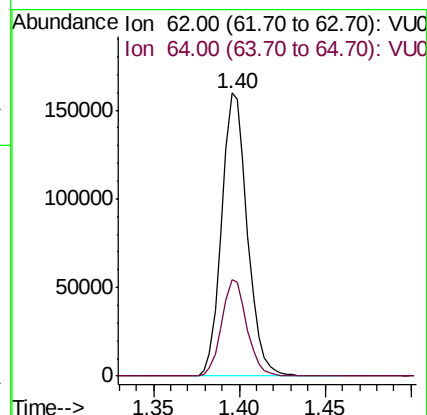
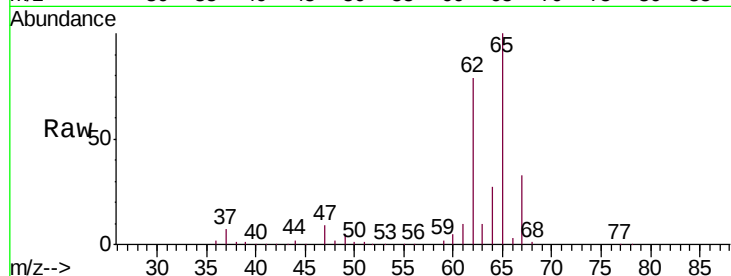
VSTD10035

Tgt Ion: 62 Resp: 167747

Ion Ratio Lower Upper

62 100

64 33.9 23.2 43.0



#6

Bromomethane

Concen: 45.987 ug/L

RT: 1.61 min Scan# 162

Delta R.T. -0.01 min

Lab File: VU034886.D

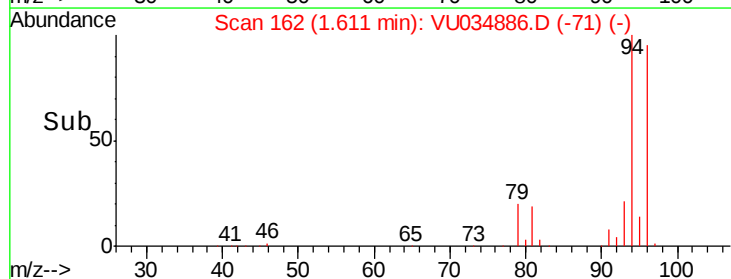
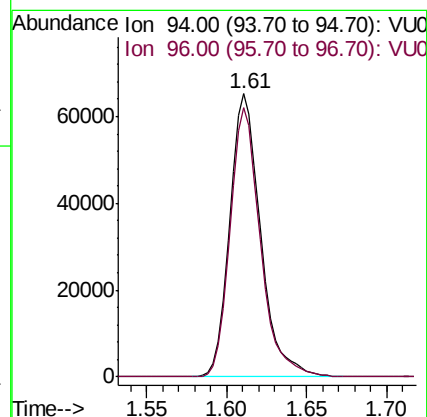
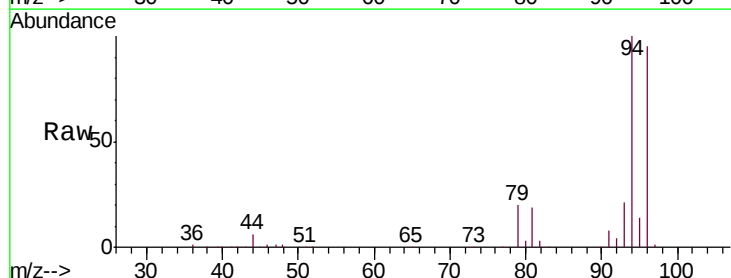
Acq: 30 Sep 2019 18:29

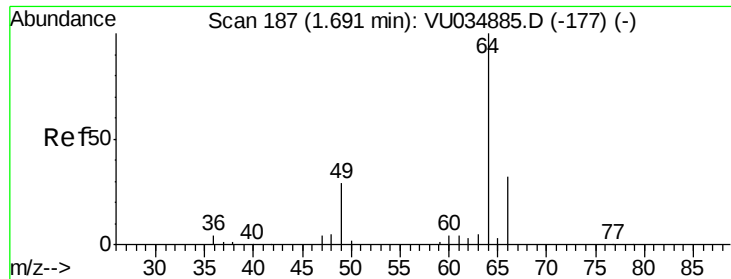
Tgt Ion: 94 Resp: 85797

Ion Ratio Lower Upper

94 100

96 95.3 64.4 119.6





#8

Chloroethane

Concen: 53.446 ug/L

RT: 1.68 min Scan# 185

Delta R.T. -0.01 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

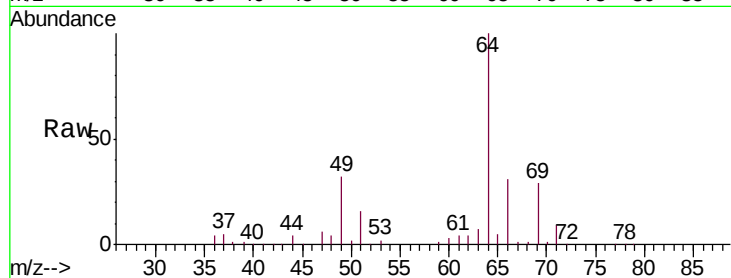
VSTD10035

Tgt Ion: 64 Resp: 106570

Ion Ratio Lower Upper

64 100

66 31.4 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU034886.D (-63) (-)

Ion 66.00 (65.70 to 66.70): VU034886.D (-63) (-)

80000

60000

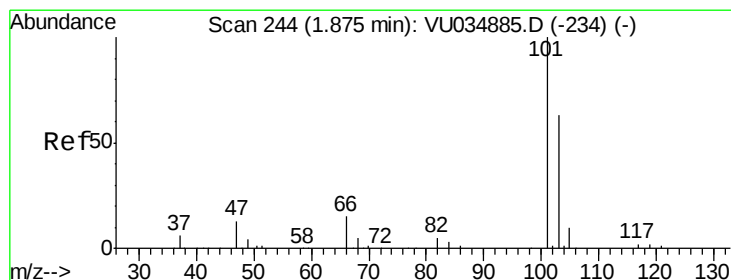
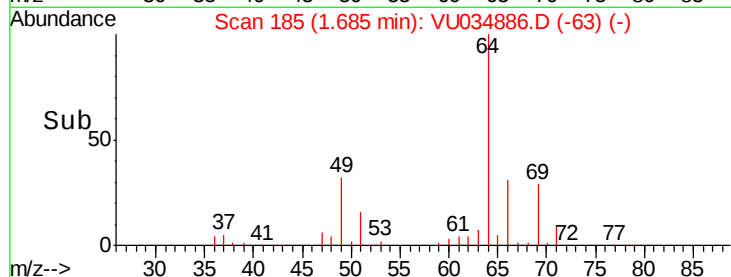
40000

20000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 56.492 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU034886.D

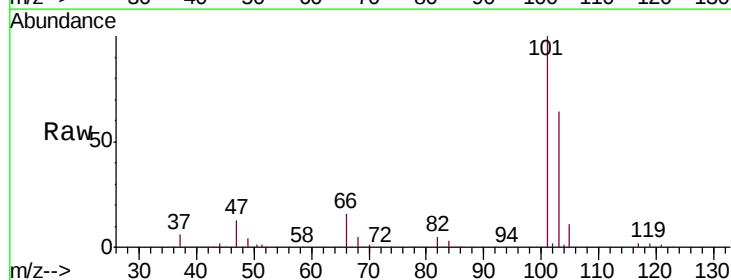
Acq: 30 Sep 2019 18:29

Tgt Ion: 101 Resp: 250869

Ion Ratio Lower Upper

101 100

103 64.9 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU034886.D (-120) (-)

Ion 103.00 (102.70 to 103.70): VU034886.D (-120) (-)

200000

150000

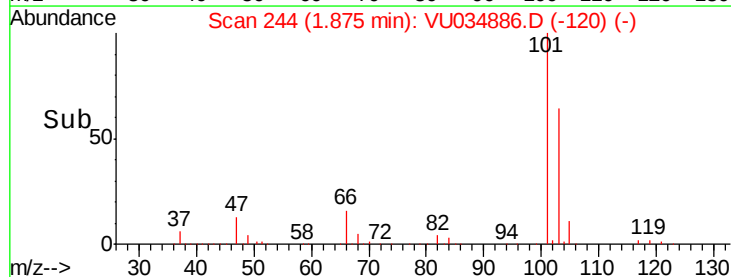
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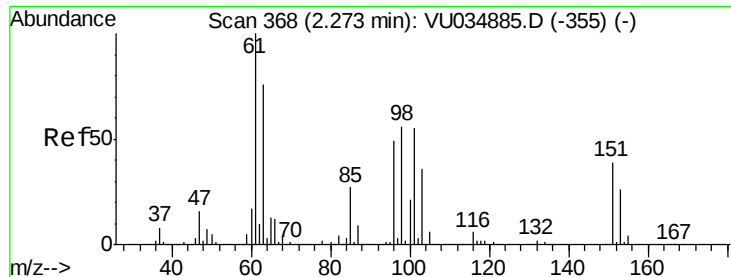
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 71.550 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

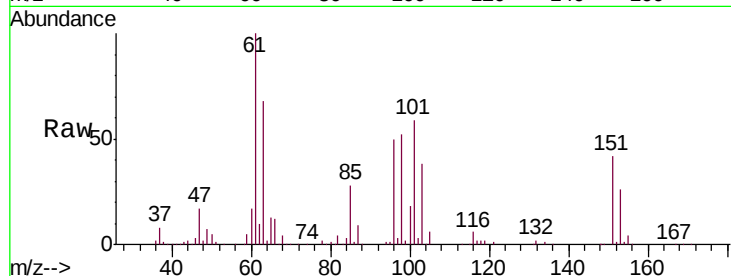
Tgt Ion: 101 Resp: 157271

Ion Ratio Lower Upper

101 100

85 46.6 37.1 55.7

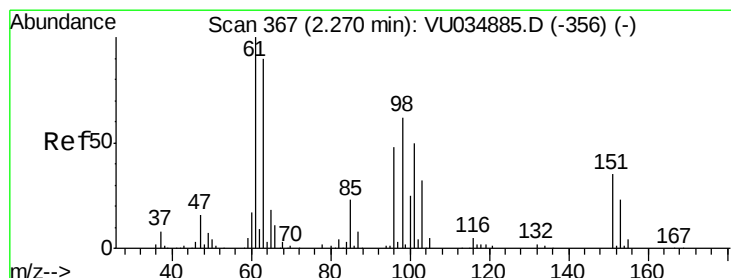
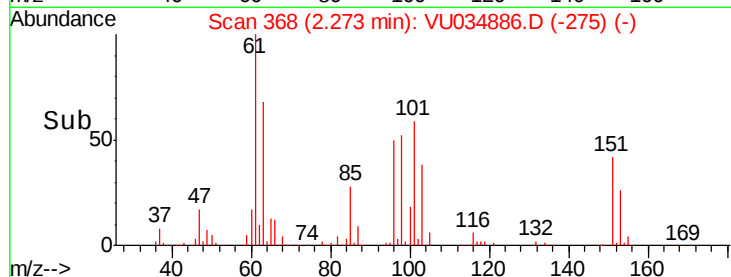
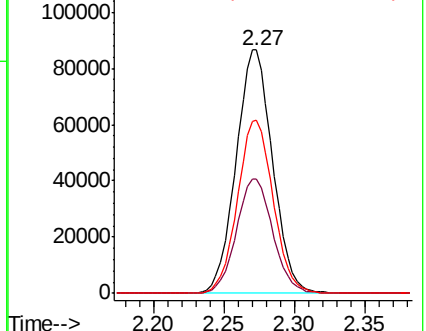
151 69.6 56.0 84.0



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: 61.622 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

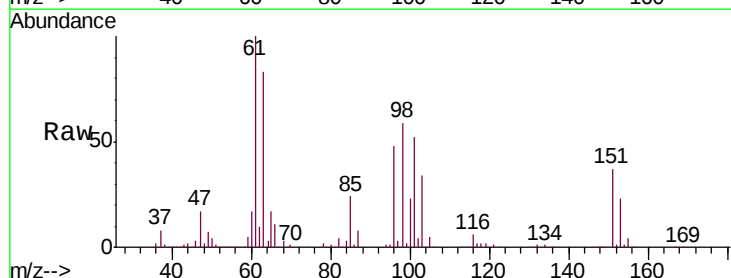
Tgt Ion: 96 Resp: 126221

Ion Ratio Lower Upper

96 100

61 207.6 147.0 273.0

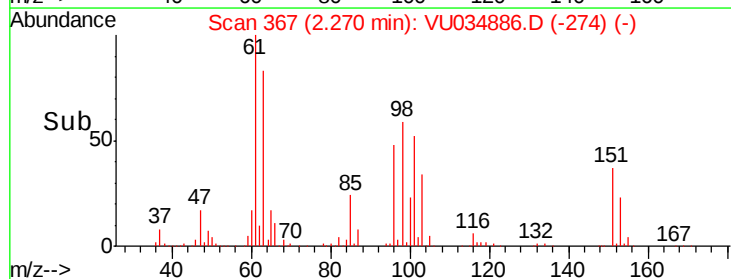
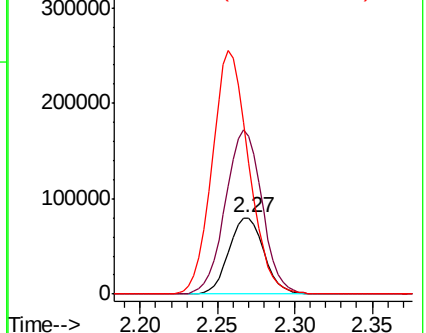
63 172.3 140.5 260.9

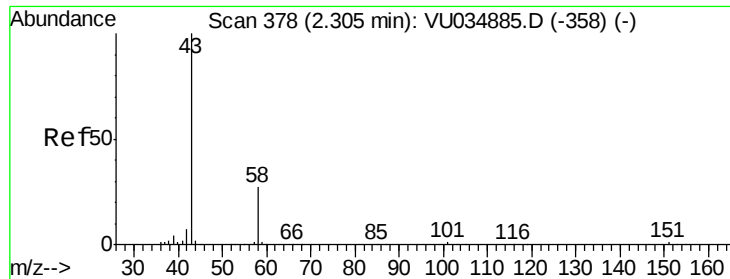


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 122.790 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

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Instrument :

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ClientSampleId :

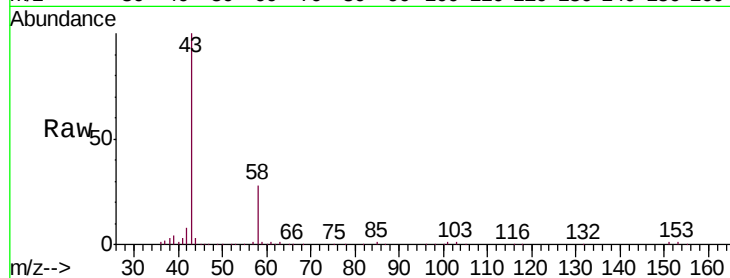
VSTD10035

Tgt Ion: 43 Resp: 356524

Ion Ratio Lower Upper

43 100

58 27.3 0.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VU034886.D (-285) (-)

Ion 58.00 (57.70 to 58.70): VU034886.D (-285) (-)

2.31

200000

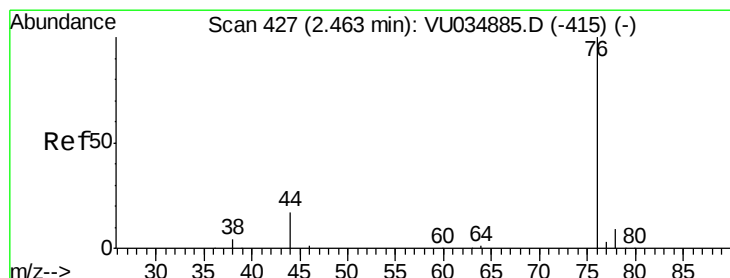
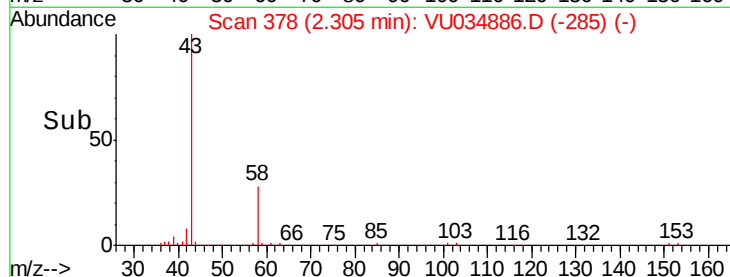
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 32.067 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034886.D

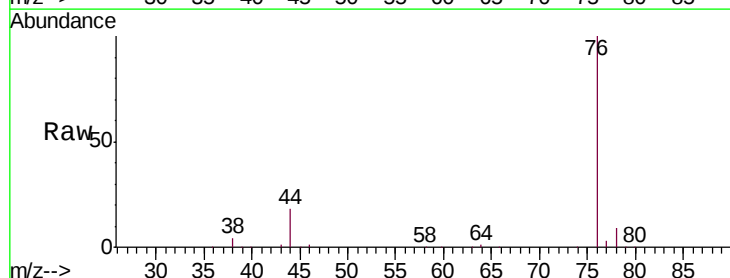
Acq: 30 Sep 2019 18:29

Tgt Ion: 76 Resp: 207408

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU034886.D (-334) (-)

Ion 78.00 (77.70 to 78.70): VU034886.D (-334) (-)

2.46

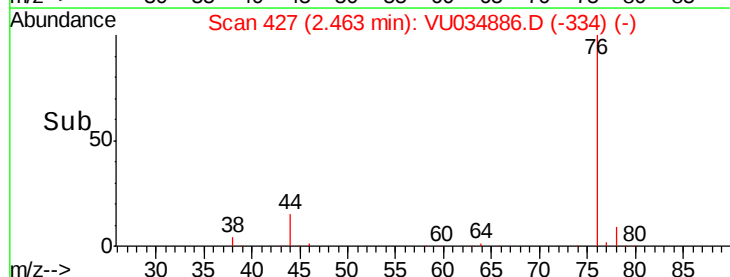
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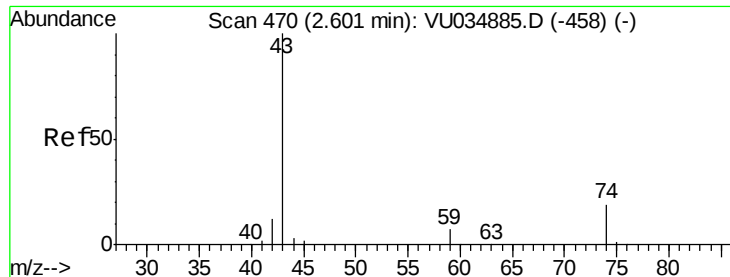
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50000

0

Time-->

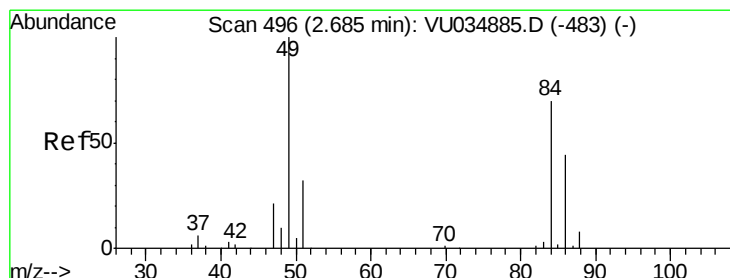
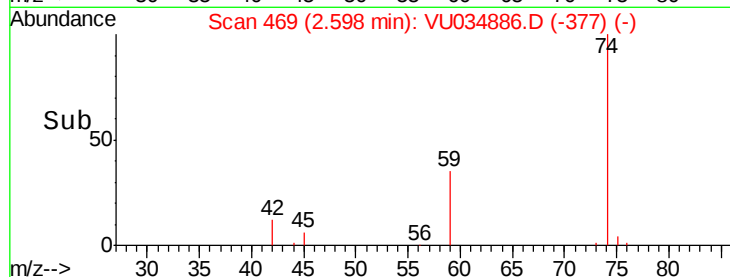
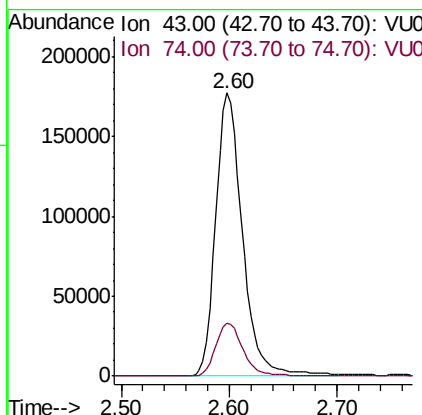
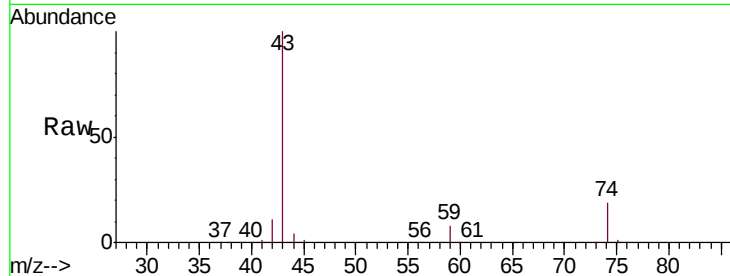




#15
Methyl Acetate
Concen: 77.006 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

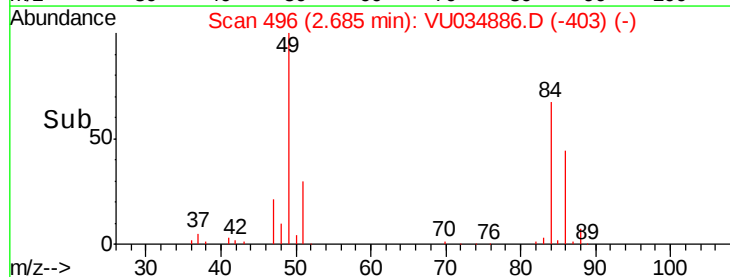
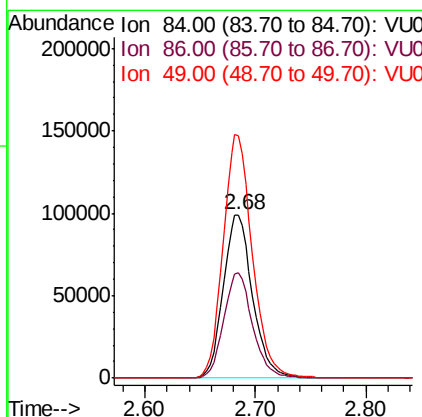
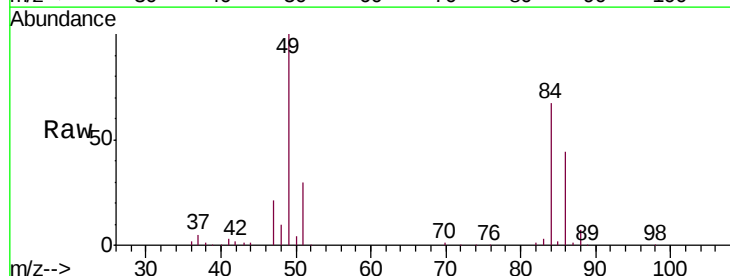
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

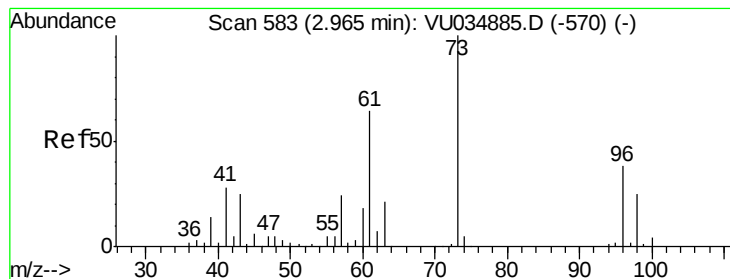
Tgt Ion: 43 Resp: 303761
Ion Ratio Lower Upper
43 100
74 19.1 15.3 22.9



#16
Methylene chloride
Concen: 68.568 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

Tgt Ion: 84 Resp: 181997
Ion Ratio Lower Upper
84 100
86 64.7 44.7 82.9
49 148.3 100.7 186.9





#17

trans-1,2-Dichloroethene

Concen: 59.812 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

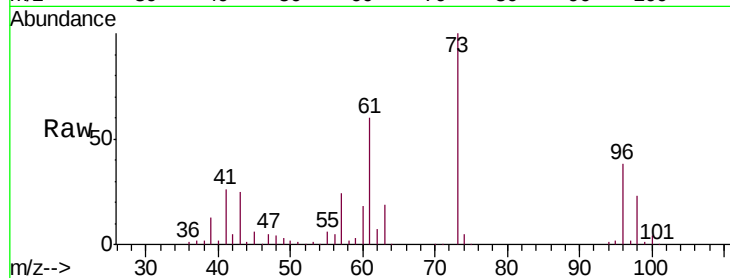
Tgt Ion: 96 Resp: 133472

Ion Ratio Lower Upper

96 100

61 159.3 117.5 218.1

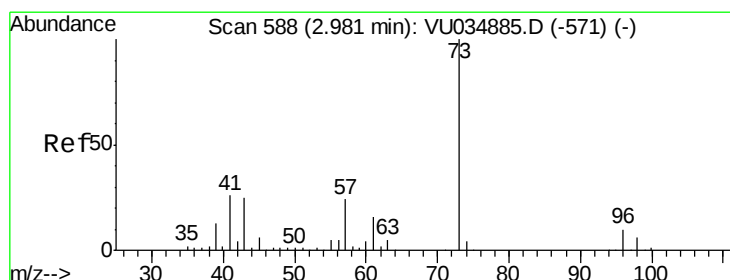
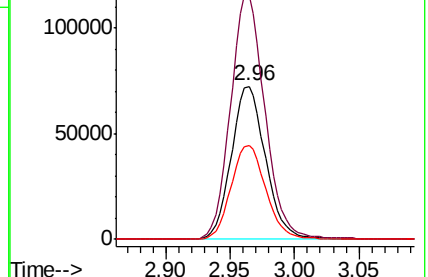
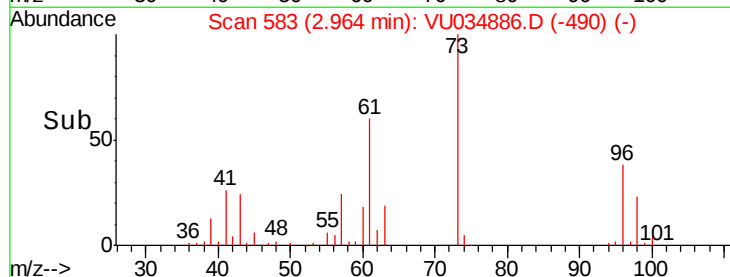
98 61.6 45.8 85.0



Abundance Ion 96.00 (95.70 to 96.70): VU034886.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU034886.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU034886.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 83.918 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

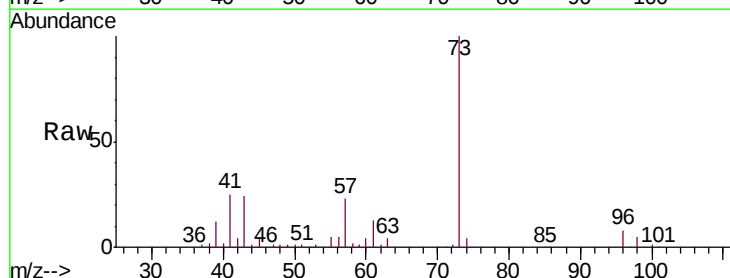
Tgt Ion: 73 Resp: 733215

Ion Ratio Lower Upper

73 100

43 24.1 19.7 29.5

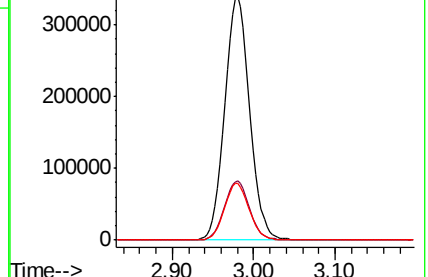
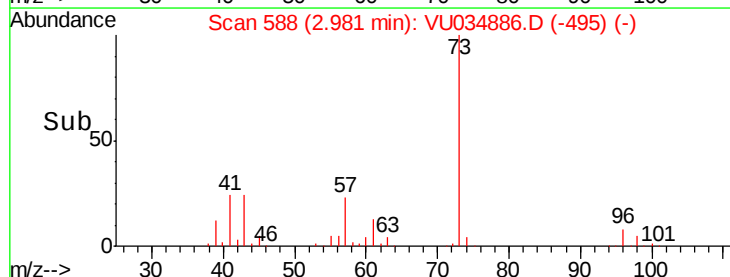
57 23.3 18.8 28.2

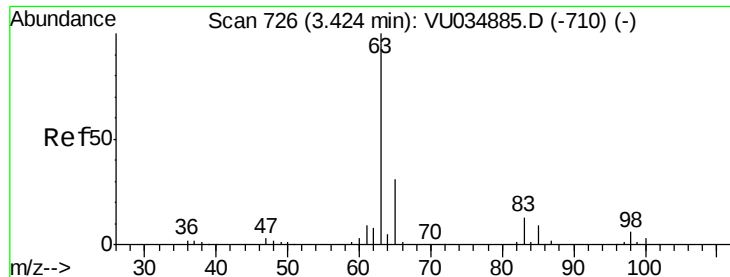


Abundance Ion 73.00 (72.70 to 73.70): VU034886.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU034886.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU034886.D (-495) (-)

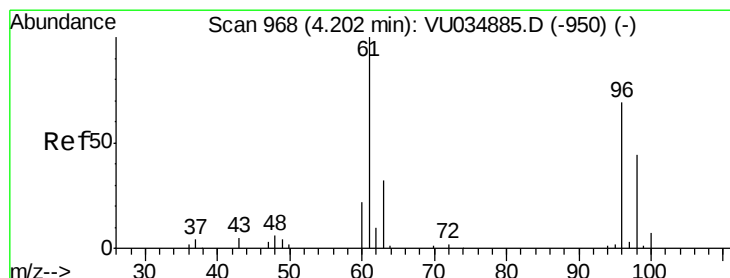
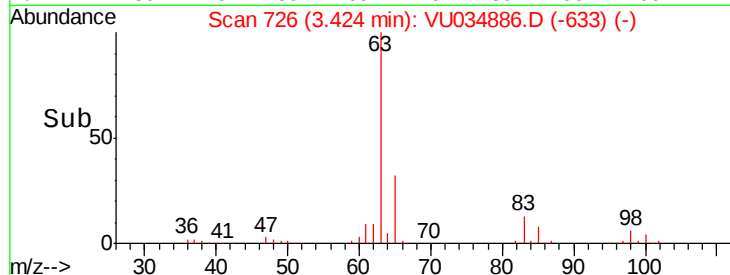
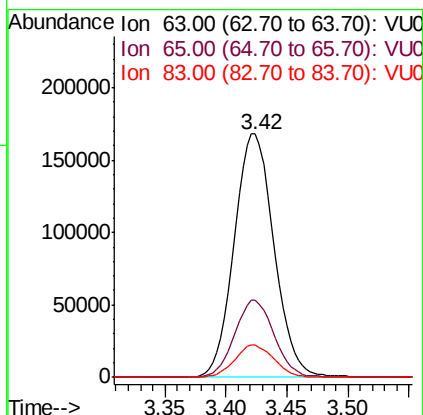
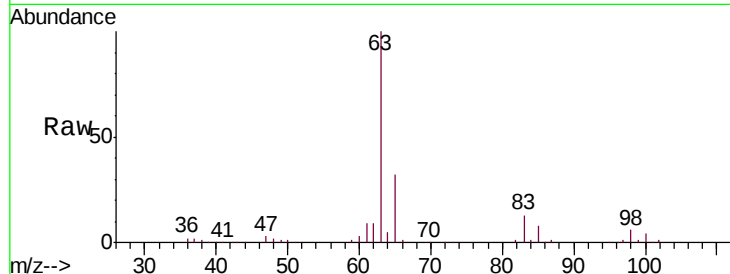




#19
 1,1-Dichloroethane
 Concen: 71.949 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

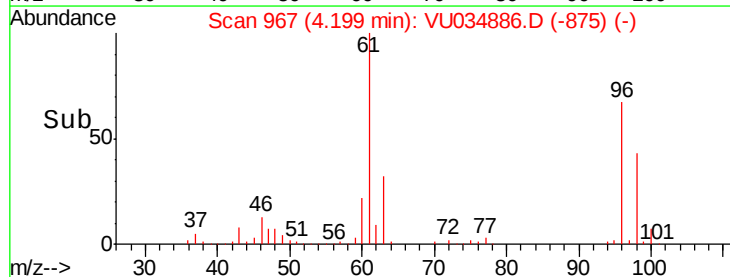
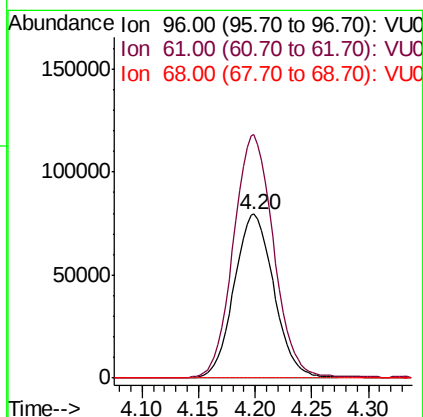
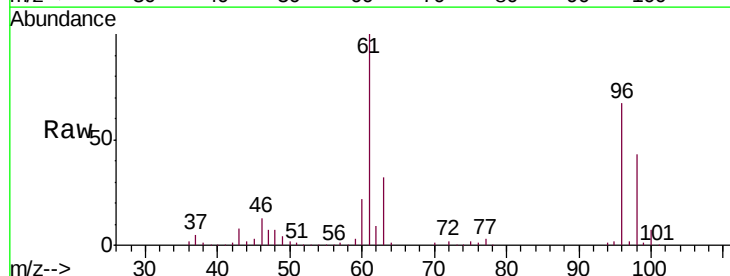
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

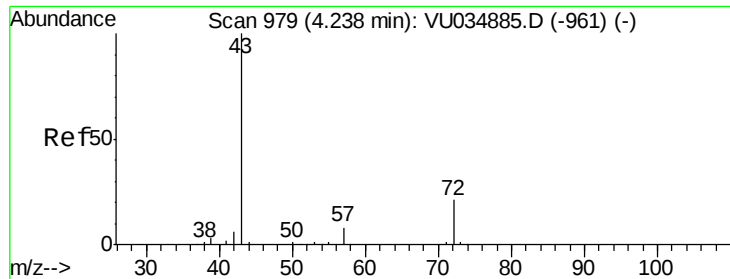
Tgt Ion: 63 Resp: 380362
 Ion Ratio Lower Upper
 63 100
 65 31.7 21.6 40.2
 83 13.2 9.0 16.6



#20
 cis-1,2-Dichloroethene
 Concen: 72.556 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

Tgt Ion: 96 Resp: 195534
 Ion Ratio Lower Upper
 96 100
 61 148.4 101.2 188.0
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 146.928 ug/L

RT: 4.23 min Scan# 978

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

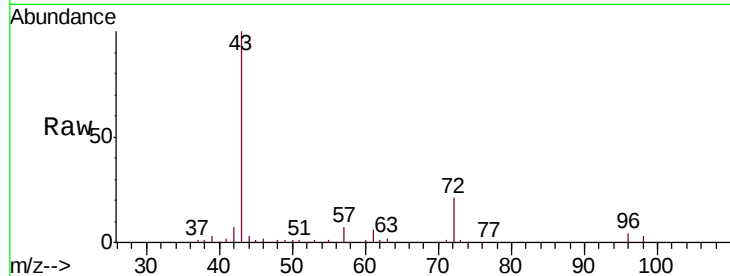
VSTD10035

Tgt Ion: 43 Resp: 510804

Ion Ratio Lower Upper

43 100

72 21.9 11.2 33.6



Abundance Ion 43.00 (42.70 to 43.70): VU034885.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU034885.D (-961) (-)

4.23

200000

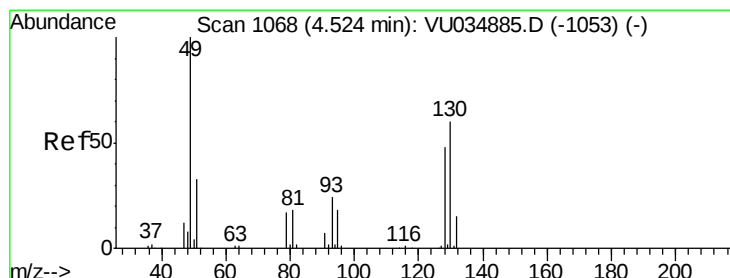
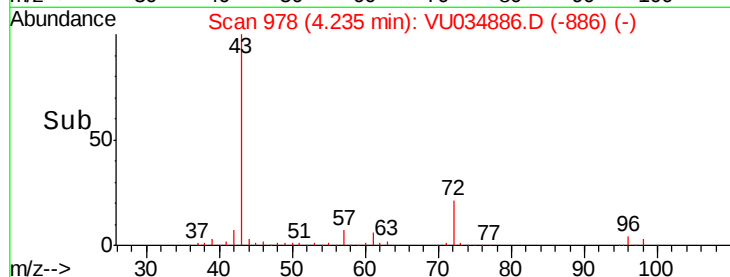
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 70.922 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Tgt Ion: 128 Resp: 91109

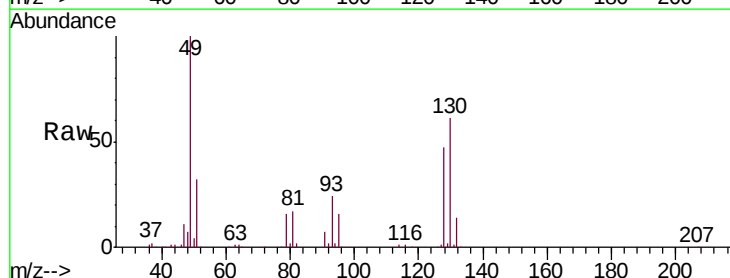
Ion Ratio Lower Upper

128 100

49 213.2 145.7 270.5

130 129.3 86.9 161.5

51 67.5 54.6 82.0



Abundance Ion 128.00 (127.70 to 128.70): VU034885.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU034885.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU034885.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU034885.D (-1053) (-)

4.52

120000

100000

80000

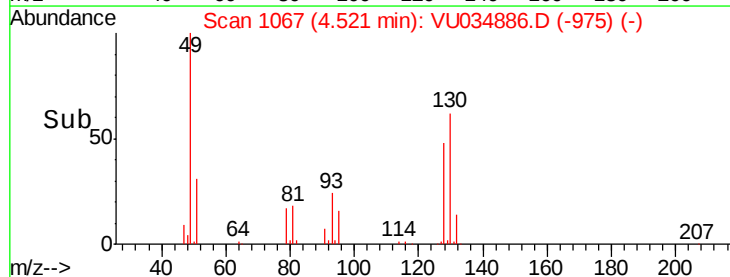
60000

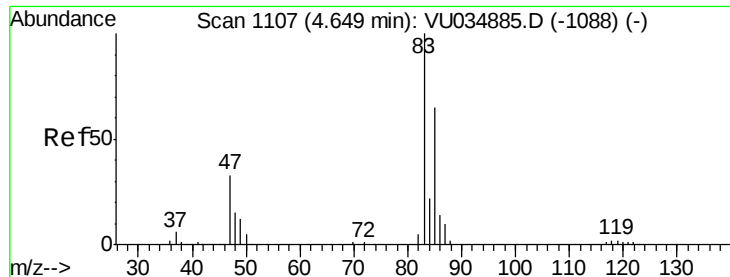
40000

20000

0

Time-->

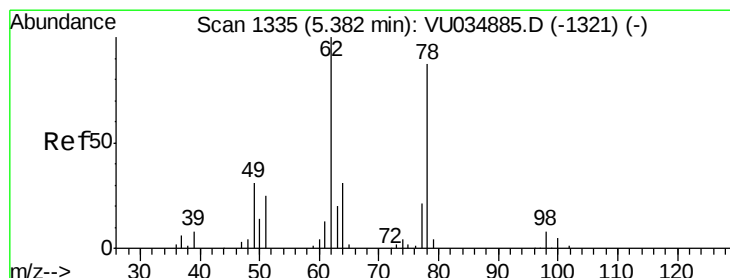
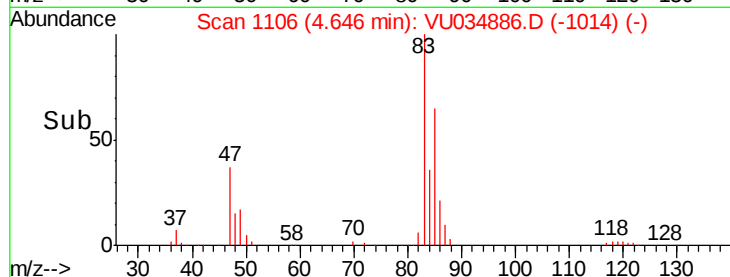
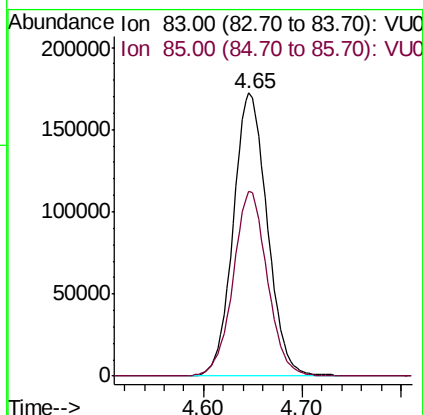
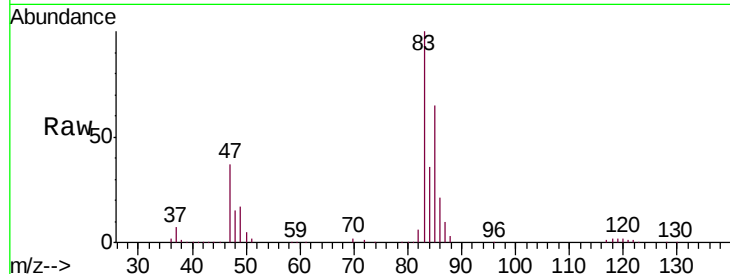




#25
Chloroform
Concen: 77.743 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

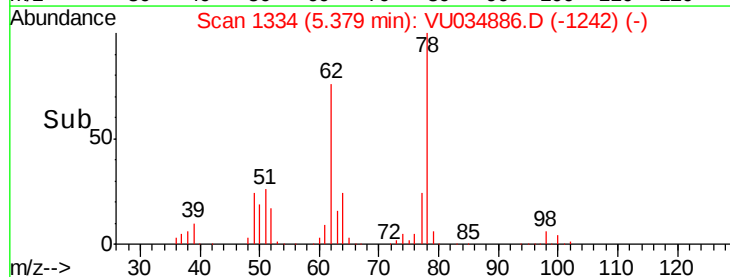
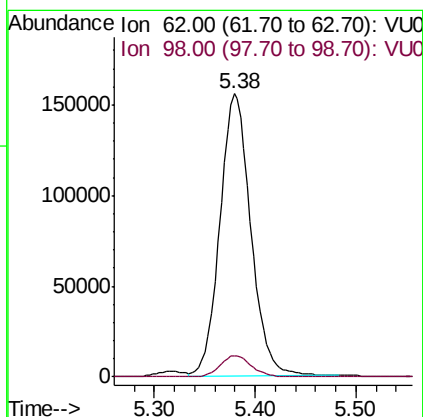
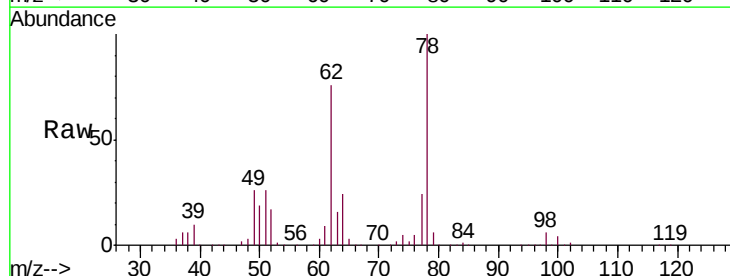
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

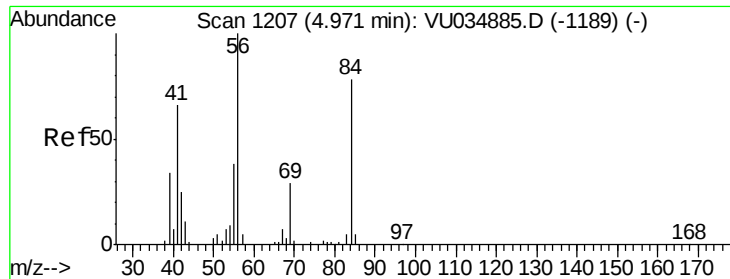
Tgt Ion: 83 Resp: 411255
Ion Ratio Lower Upper
83 100
85 65.3 45.5 84.5



#27
1,2-Dichloroethane
Concen: 74.358 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

Tgt Ion: 62 Resp: 333537
Ion Ratio Lower Upper
62 100
98 7.4 6.2 9.2

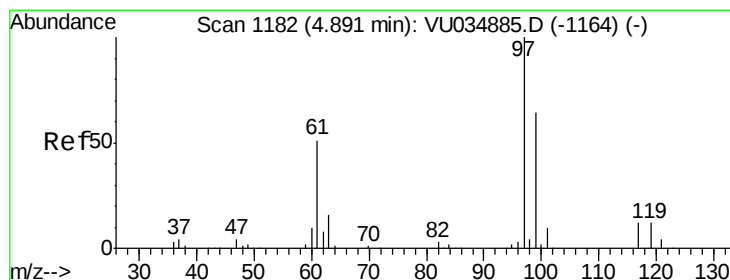
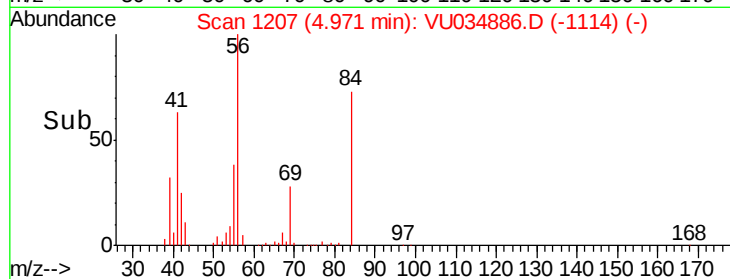
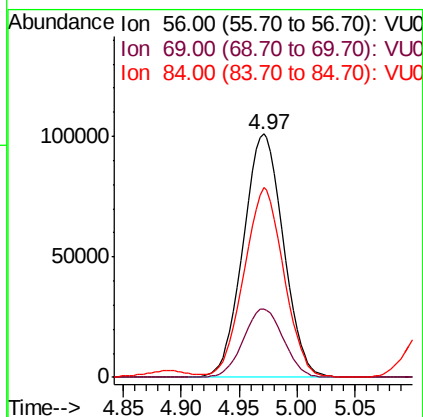
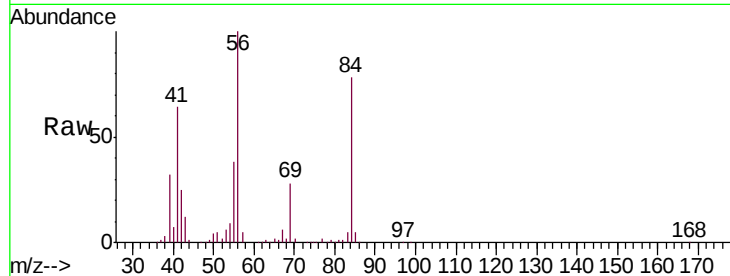




#29
Cyclohexane
Concen: 49.396 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

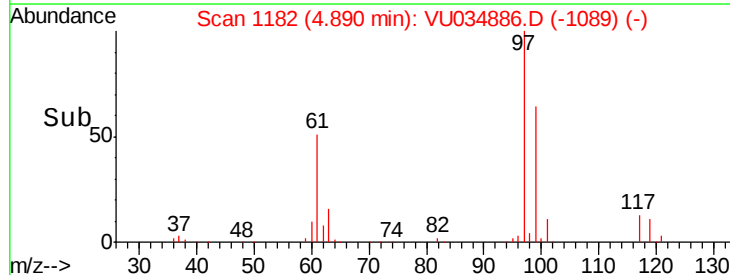
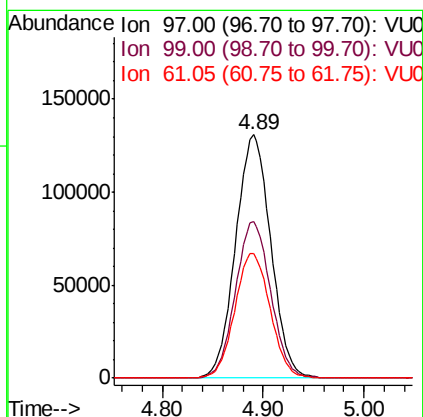
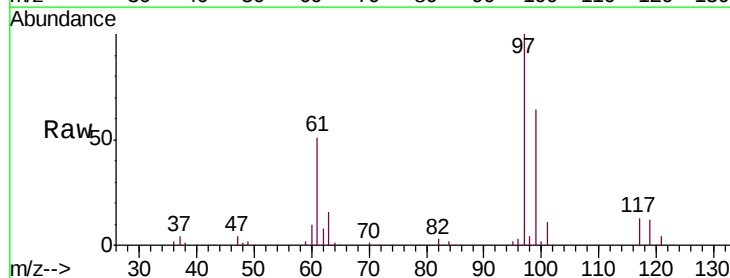
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

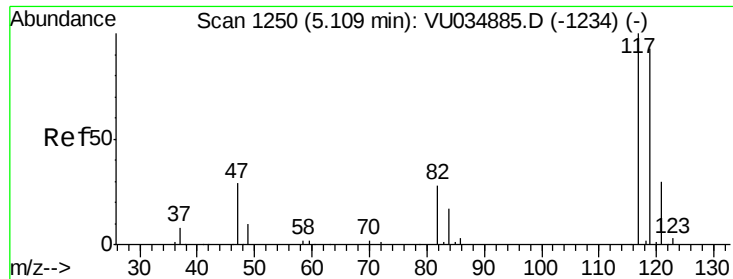
Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.1	22.6	33.8
84	76.2	61.6	92.4



#30
1,1,1-Trichloroethane
Concen: 73.253 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.8	76.2
61	51.4	41.2	61.8

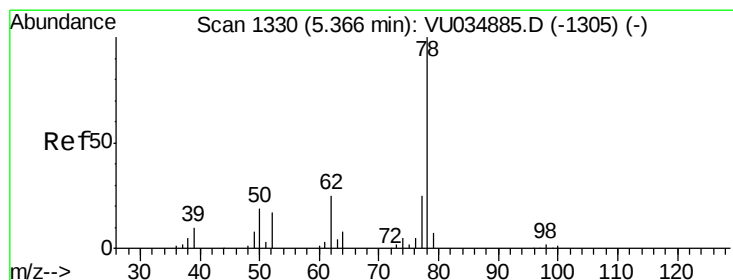
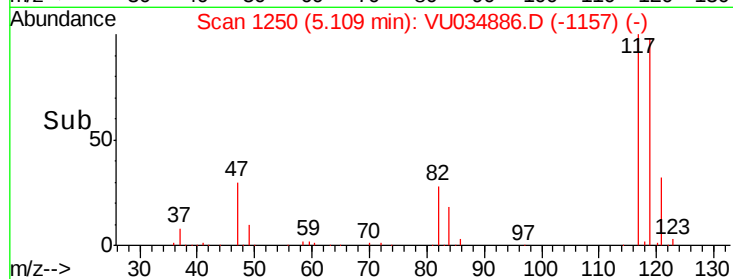
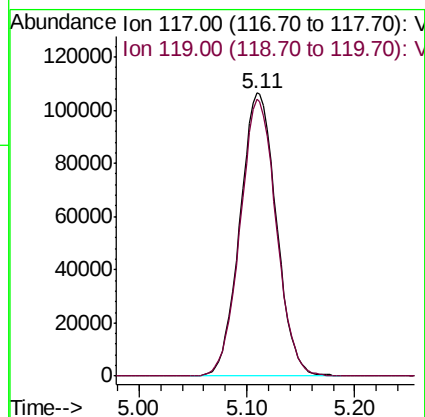
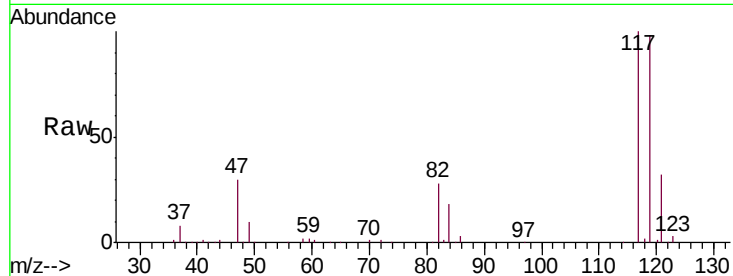




#31
Carbon tetrachloride
Concen: 68.794 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

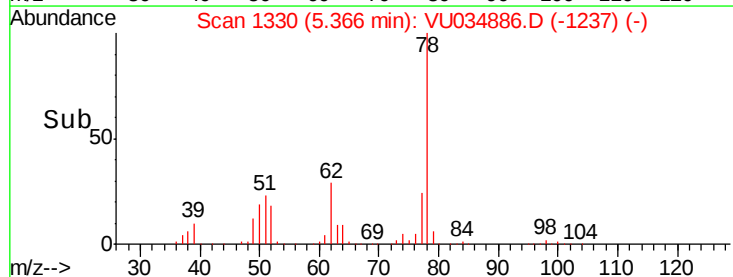
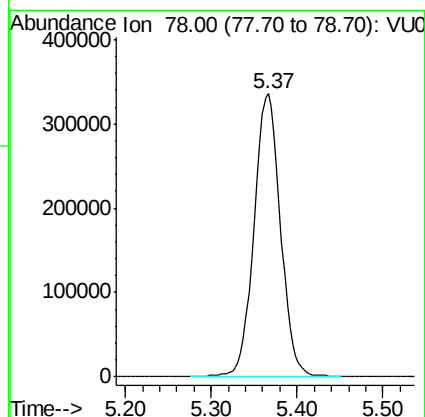
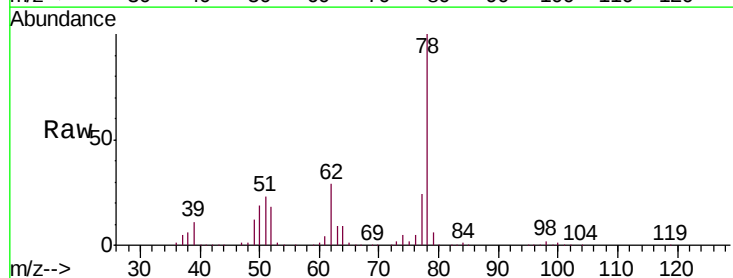
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

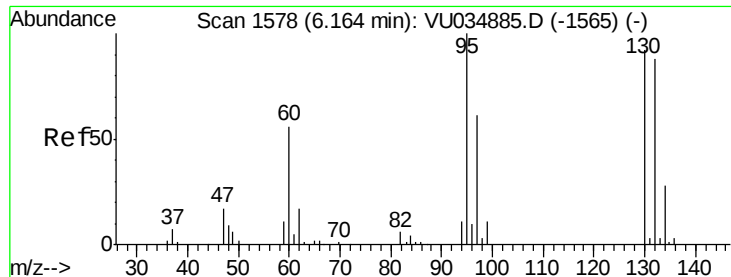
Tgt Ion:117 Resp: 249533
Ion Ratio Lower Upper
117 100
119 96.9 75.3 112.9



#33
Benzene
Concen: 66.810 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

Tgt Ion: 78 Resp: 721189





#34

Trichloroethene

Concen: 66.126 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

Tgt Ion: 95 Resp: 176888

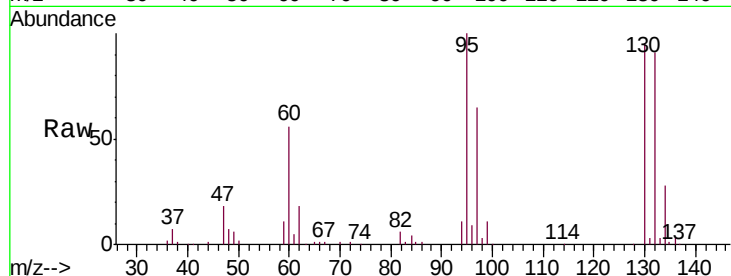
Ion Ratio Lower Upper

95 100

97 64.8 42.9 79.7

132 90.9 61.7 114.7

130 95.4 64.6 120.0

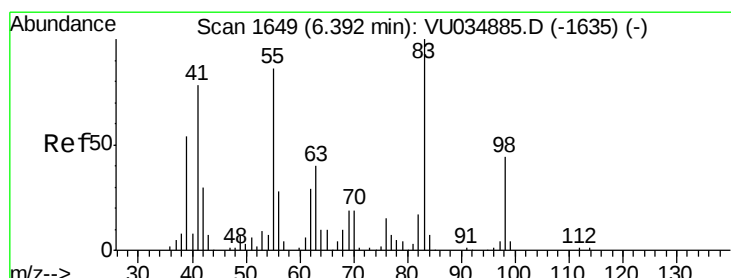
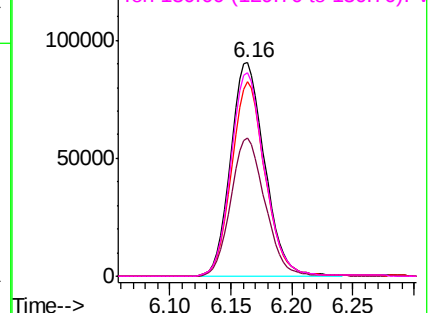
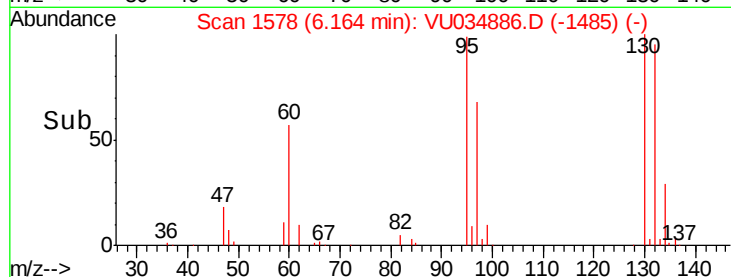


Abundance Ion 95.00 (94.70 to 95.70): VU034886.D (-1485) (-)

Ion 97.00 (96.70 to 97.70): VU034886.D (-1485) (-)

Ion 132.00 (131.70 to 132.70): VU034886.D (-1485) (-)

Ion 130.00 (129.70 to 130.70): VU034886.D (-1485) (-)



#35

Methylcyclohexane

Concen: 52.159 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

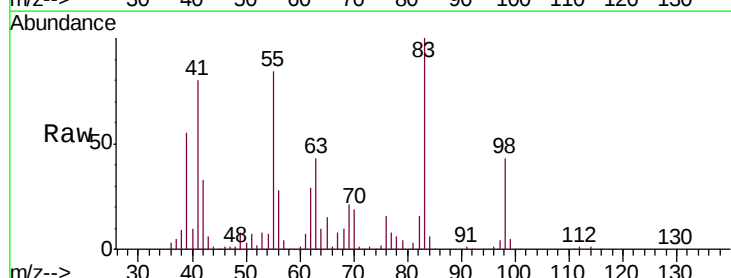
Tgt Ion: 83 Resp: 228693

Ion Ratio Lower Upper

83 100

55 84.5 68.4 102.6

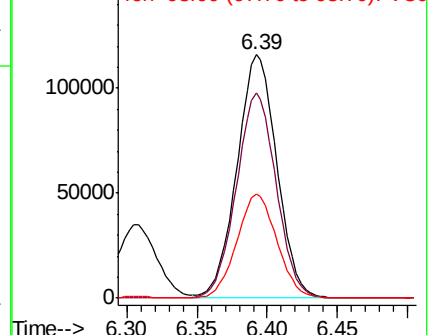
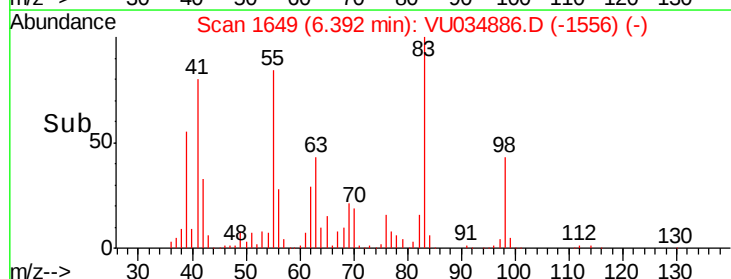
98 43.3 35.3 52.9

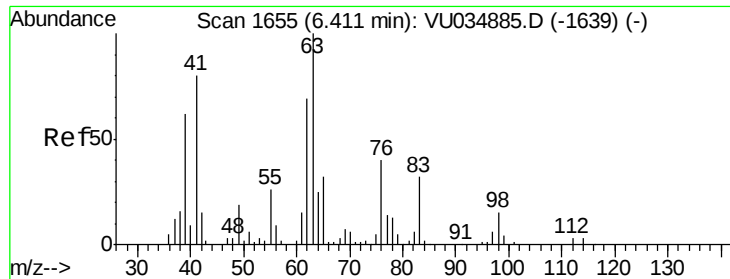


Abundance Ion 83.00 (82.70 to 83.70): VU034886.D (-1556) (-)

Ion 55.00 (54.70 to 55.70): VU034886.D (-1556) (-)

Ion 98.00 (97.70 to 98.70): VU034886.D (-1556) (-)

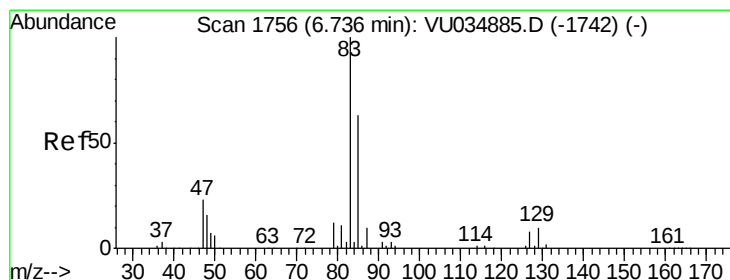
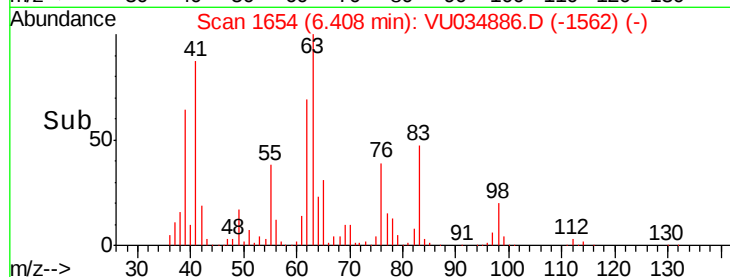
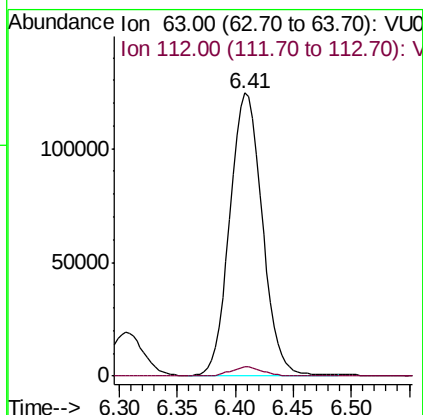
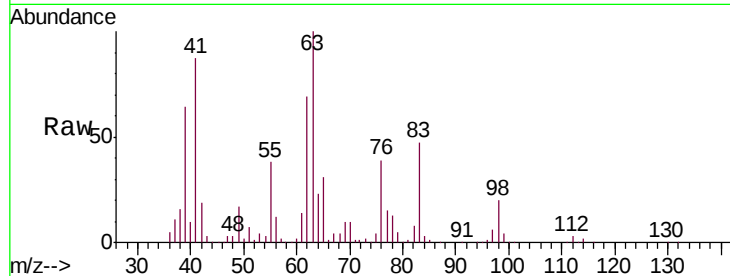




#37
 1,2-Dichloropropane
 Concen: 74.021 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

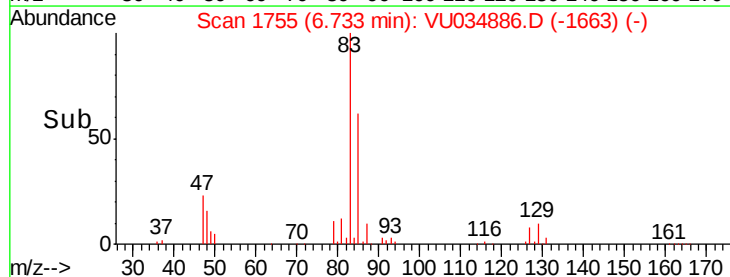
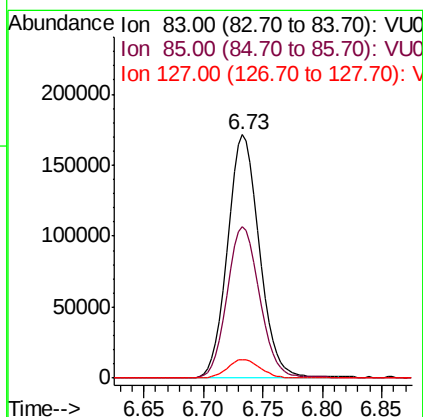
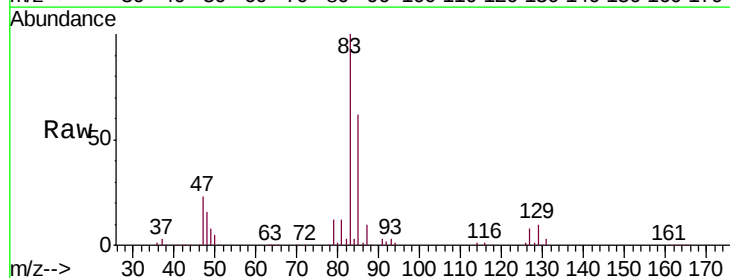
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

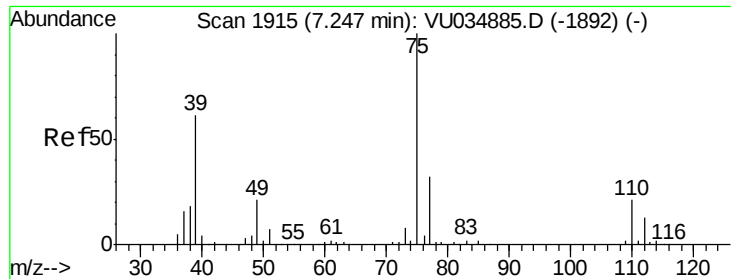
Tgt Ion: 63 Resp: 241450
 Ion Ratio Lower Upper
 63 100
 112 3.3 2.8 4.2



#38
 Bromodichloromethane
 Concen: 79.825 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

Tgt Ion: 83 Resp: 319202
 Ion Ratio Lower Upper
 83 100
 85 62.2 44.4 82.4
 127 7.8 6.6 9.8

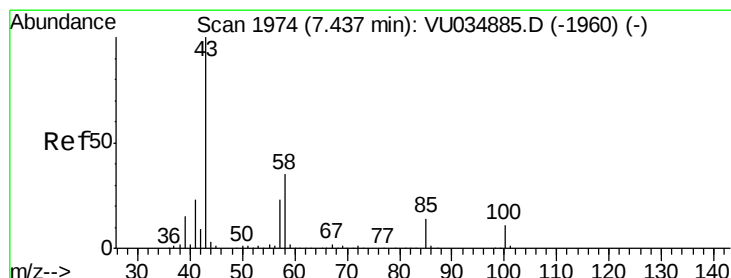
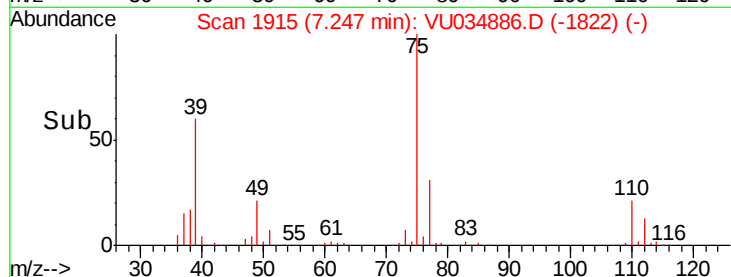
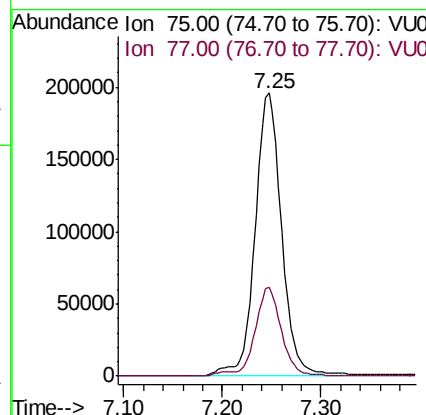
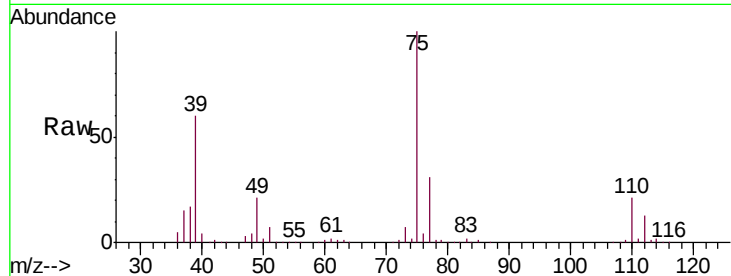




#39
 cis-1,3-Dichloropropene
 Concen: 74.016 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

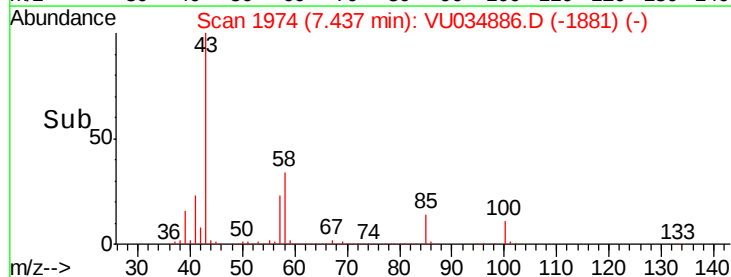
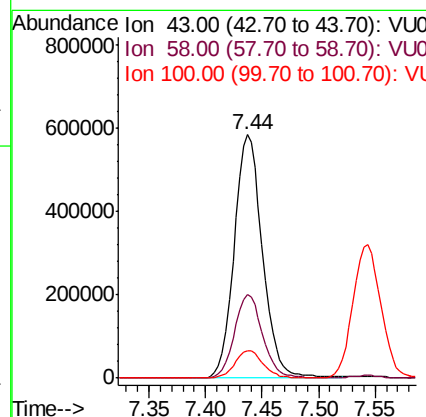
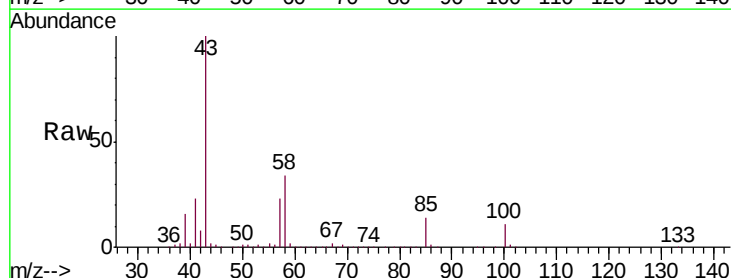
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

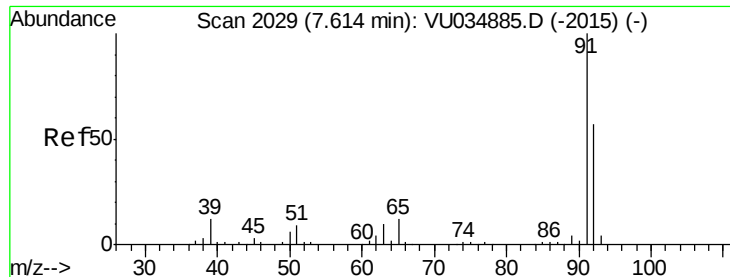
Tgt Ion: 75 Resp: 363461
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 160.839 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

Tgt Ion: 43 Resp: 1014497
 Ion Ratio Lower Upper
 43 100
 58 34.3 27.5 41.3
 100 11.3 9.0 13.6





#42

Toluene

Concen: 67.059 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

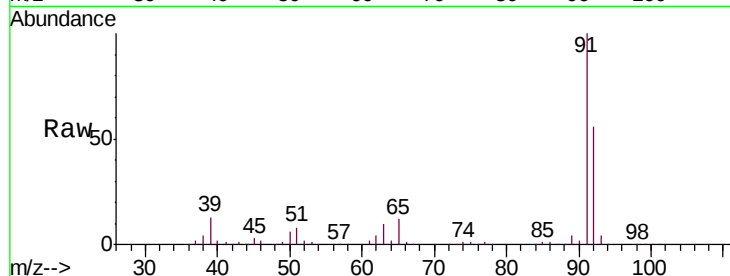
VSTD10035

Tgt Ion: 91 Resp: 780878

Ion Ratio Lower Upper

91 100

92 55.8 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

400000

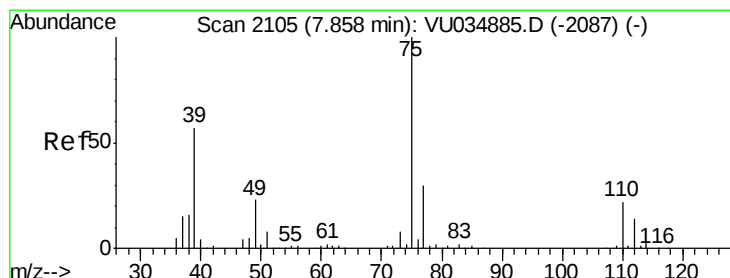
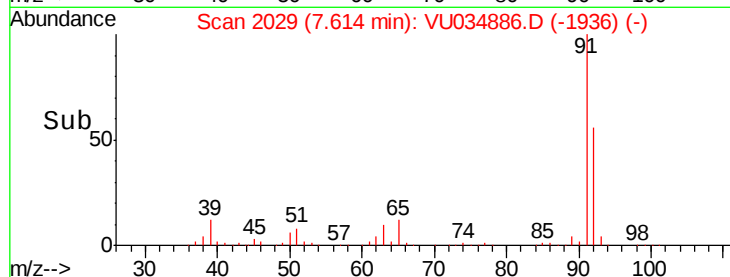
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 77.738 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034886.D

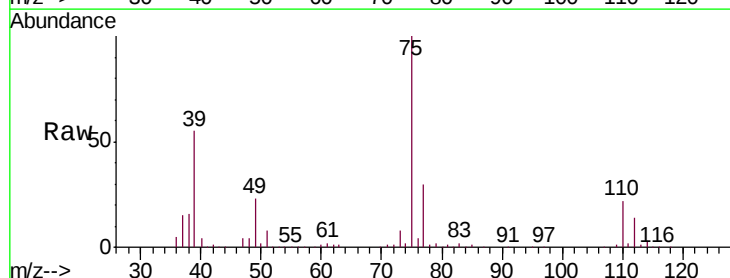
Acq: 30 Sep 2019 18:29

Tgt Ion: 75 Resp: 341015

Ion Ratio Lower Upper

75 100

77 30.2 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

200000

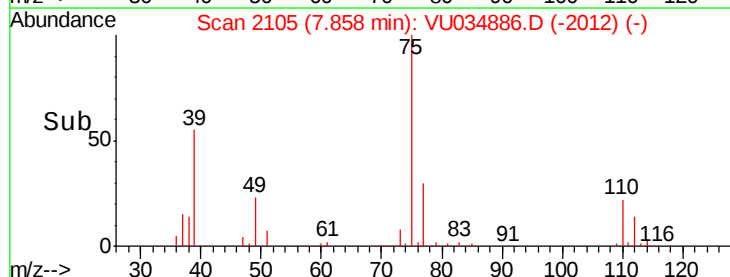
150000

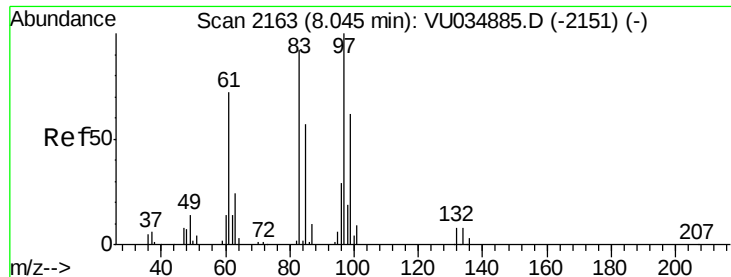
100000

50000

0

Time-->

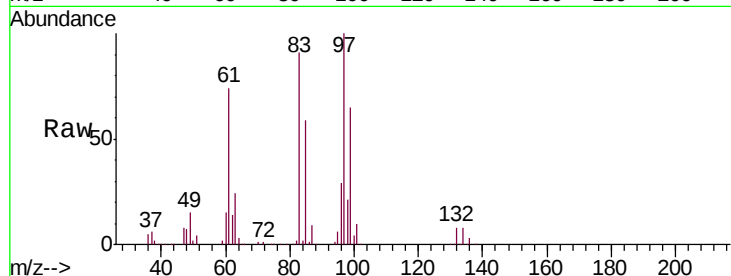




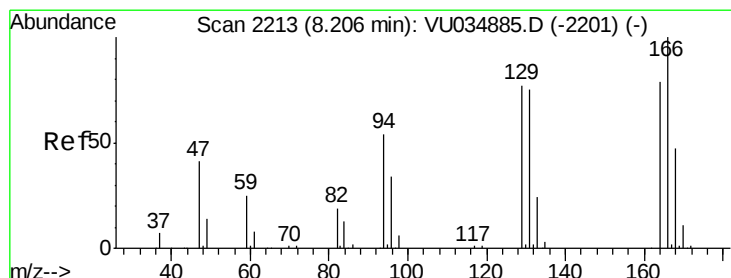
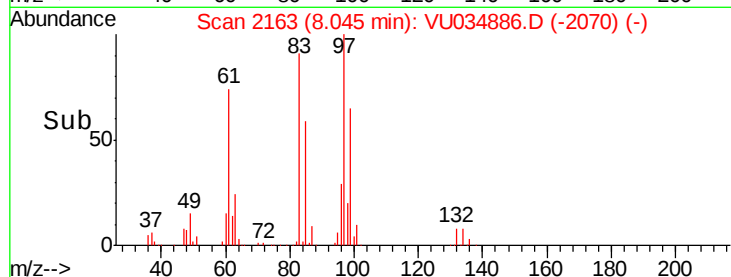
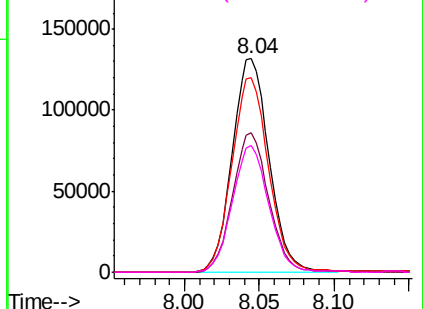
#45
 1,1,2-Trichloroethane
 Concen: 84.328 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

Tgt Ion:	97	Resp:	226457
Ion	Ratio	Lower	Upper
97	100		
99	65.1	43.3	80.5
83	91.1	64.3	119.5
85	59.1	39.9	74.1

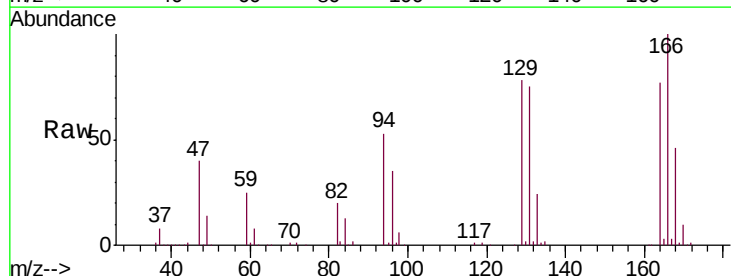


Abundance Ion 97.00 (96.70 to 97.70): VU034886.D (-2070) (-)
 Ion 99.00 (98.70 to 99.70): VU034886.D (-2070) (-)
 Ion 83.00 (82.70 to 83.70): VU034886.D (-2070) (-)
 Ion 85.00 (84.70 to 85.70): VU034886.D (-2070) (-)

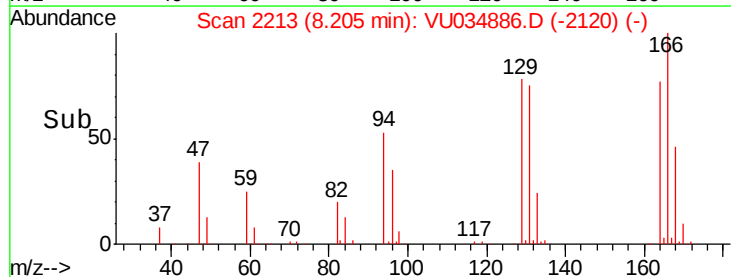
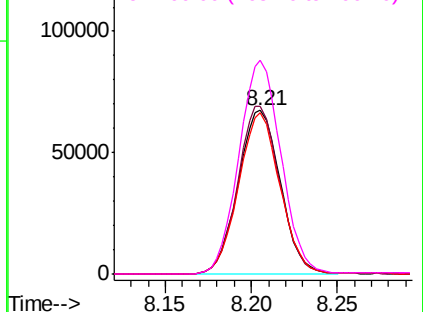


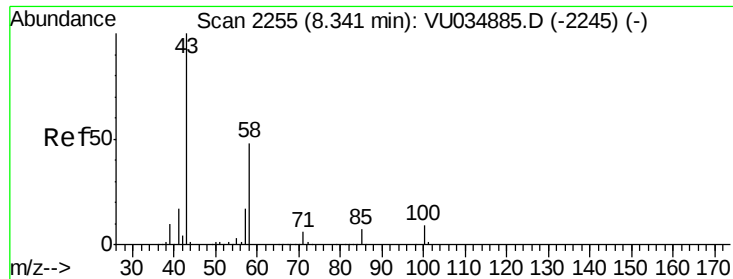
#46
 Tetrachloroethene
 Concen: 61.857 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

Tgt Ion:	164	Resp:	115109
Ion	Ratio	Lower	Upper
164	100		
129	102.6	68.3	126.8
131	98.5	66.2	123.0
166	130.7	88.1	163.5



Abundance Ion 164.00 (163.70 to 164.70): VU034886.D (-2120) (-)
 Ion 129.00 (128.70 to 129.70): VU034886.D (-2120) (-)
 Ion 131.00 (130.70 to 131.70): VU034886.D (-2120) (-)
 Ion 166.00 (165.70 to 166.70): VU034886.D (-2120) (-)

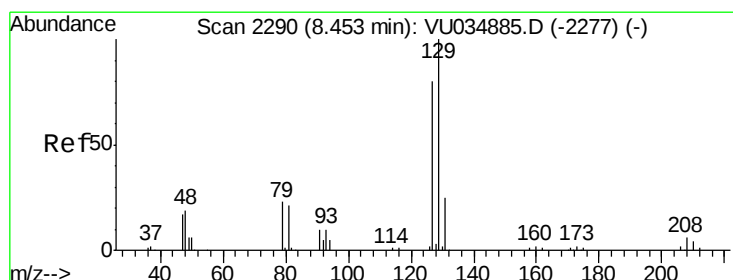
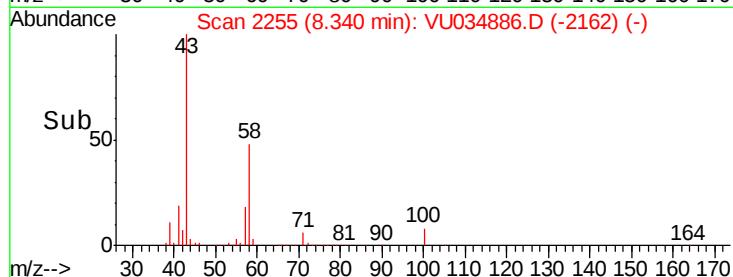
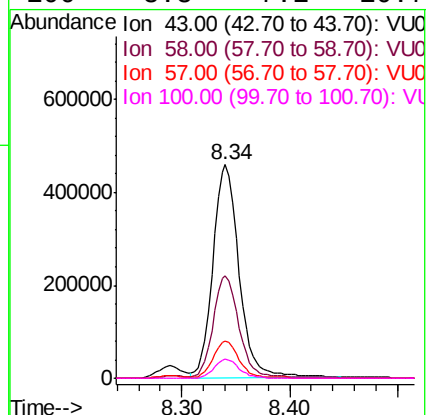
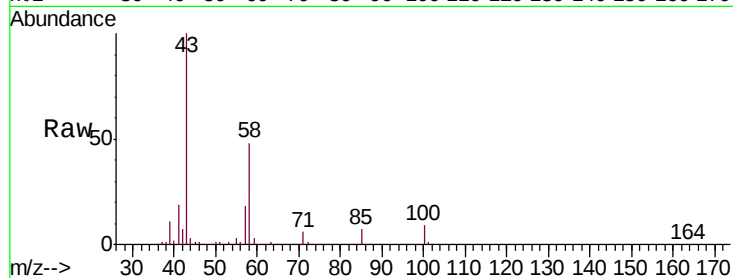




#48
2-Hexanone
Concen: 156.856 ug/L
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

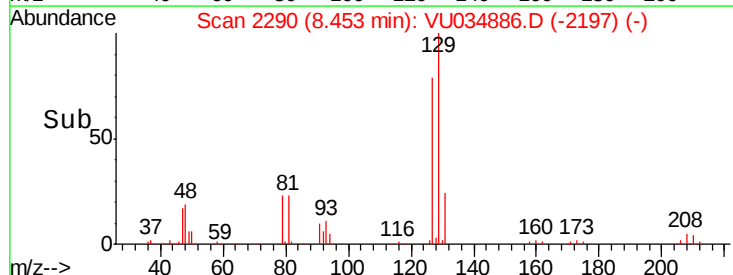
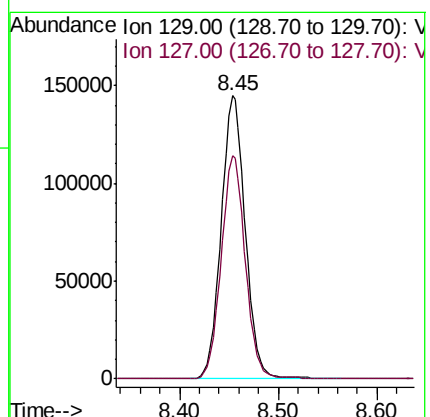
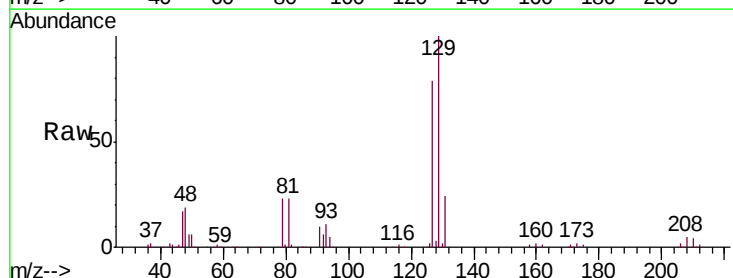
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

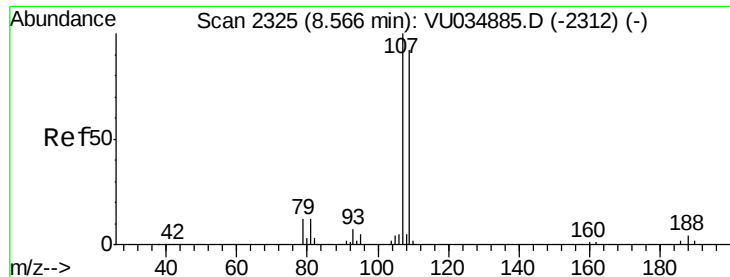
Tgt Ion: 43 Resp: 766725
Ion Ratio Lower Upper
43 100
58 49.0 37.8 56.8
57 17.1 13.4 20.0
100 8.8 7.1 10.7



#49
Dibromochloromethane
Concen: 83.780 ug/L
RT: 8.45 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

Tgt Ion: 129 Resp: 248887
Ion Ratio Lower Upper
129 100
127 78.8 55.8 103.6

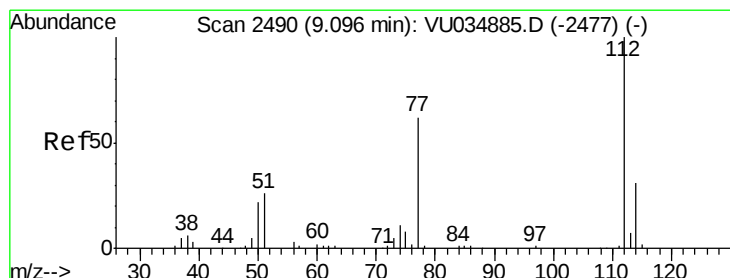
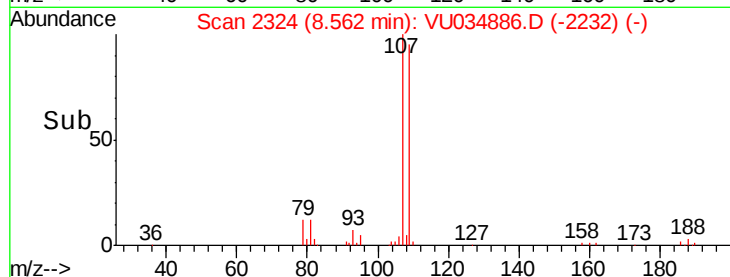
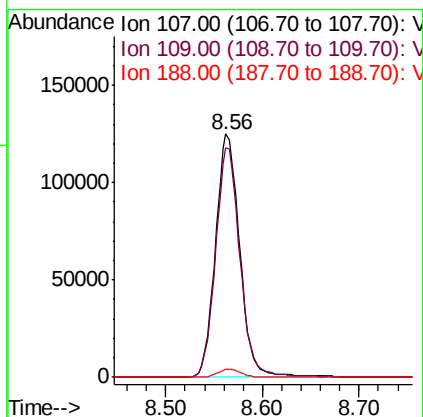
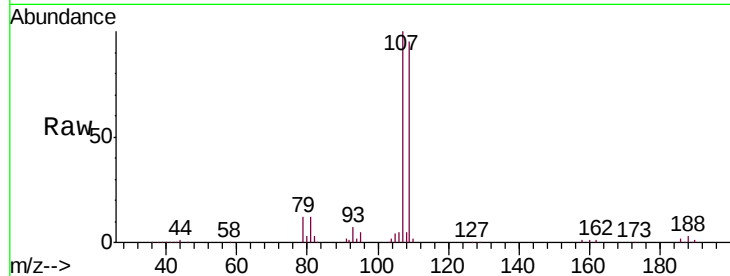




#50
1,2-Dibromoethane
Concen: 77.317 ug/L
RT: 8.56 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

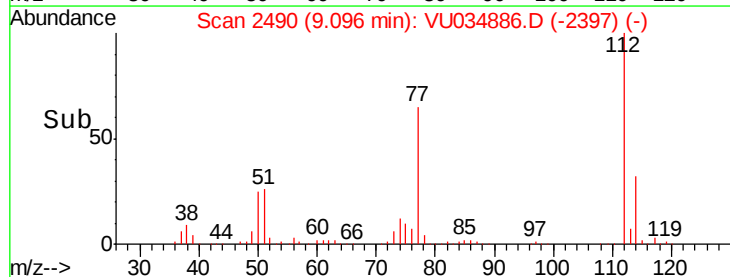
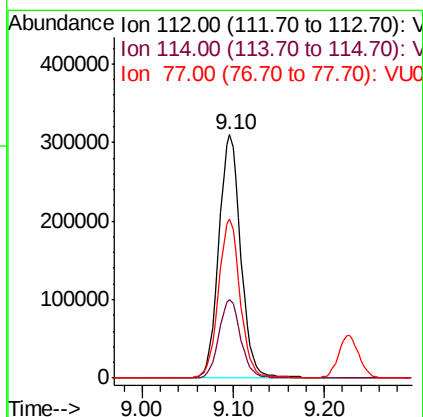
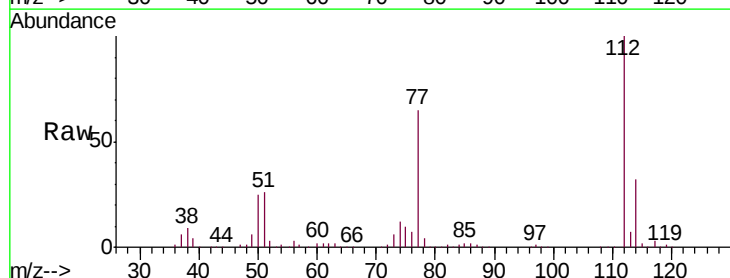
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

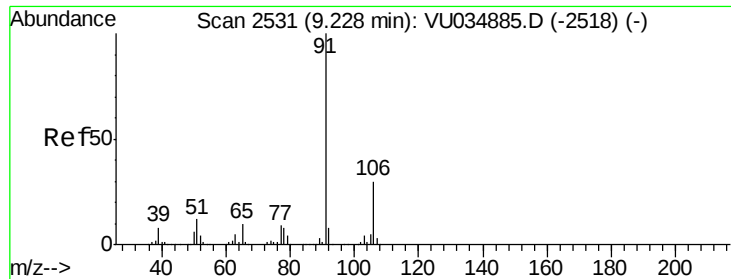
Tgt Ion:107 Resp: 218344
Ion Ratio Lower Upper
107 100
109 94.5 64.6 120.0
188 3.2 2.8 4.2



#51
Chlorobenzene
Concen: 72.016 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. -0.00 min
Lab File: VU034886.D
Acq: 30 Sep 2019 18:29

Tgt Ion:112 Resp: 518294
Ion Ratio Lower Upper
112 100
114 32.4 21.7 40.3
77 65.5 50.1 75.1





#52

Ethylbenzene

Concen: 69.750 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

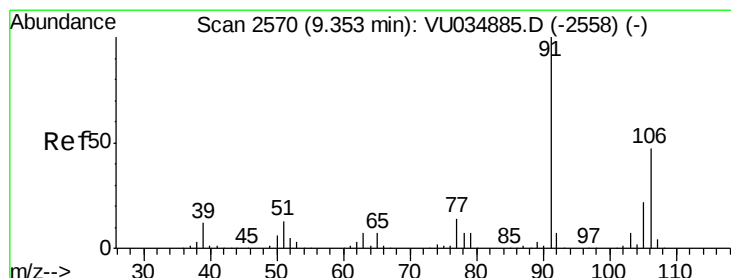
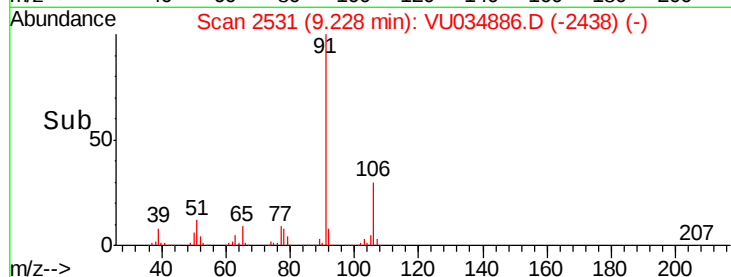
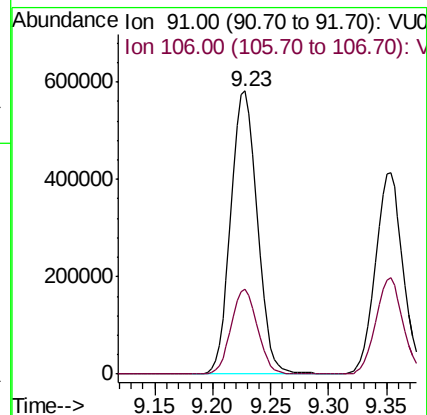
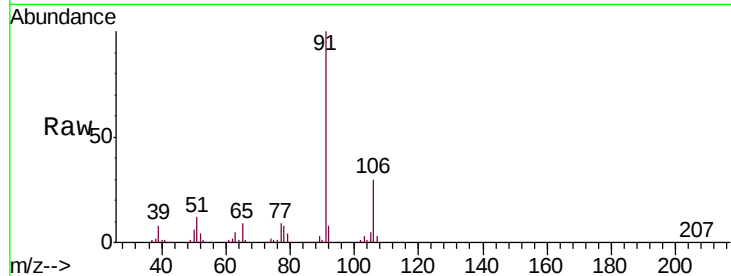
VSTD10035

Tgt Ion: 91 Resp: 922175

Ion Ratio Lower Upper

91 100

106 29.9 20.9 38.9



#53

m,p-Xylene

Concen: 69.782 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034886.D

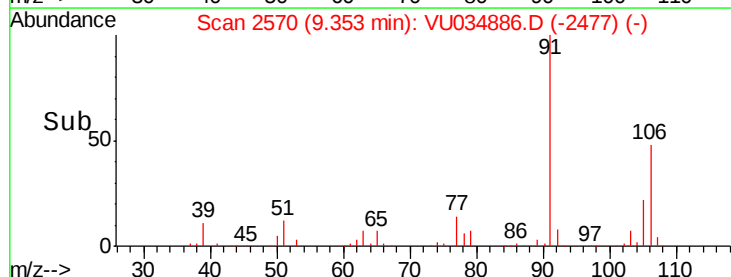
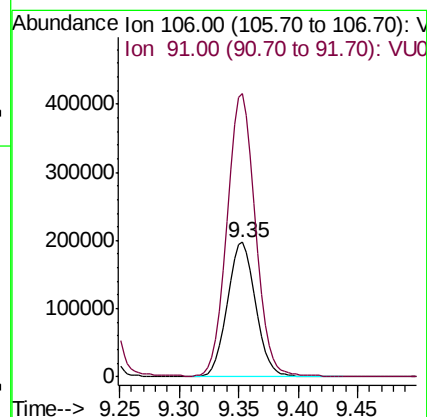
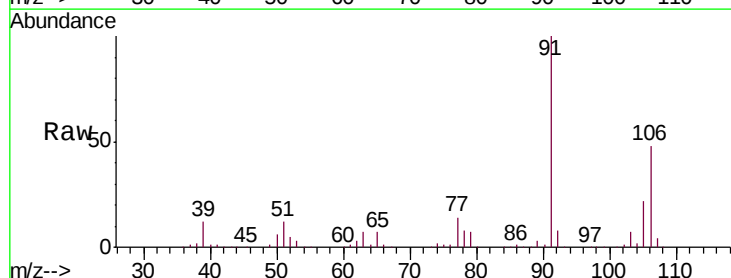
Acq: 30 Sep 2019 18:29

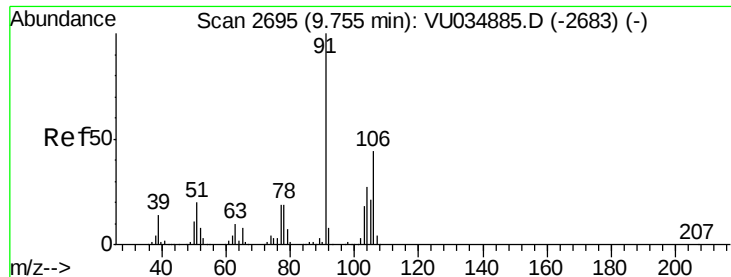
Tgt Ion: 106 Resp: 324915

Ion Ratio Lower Upper

106 100

91 210.3 150.1 278.9





#54

o-xylene

Concen: 73.479 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

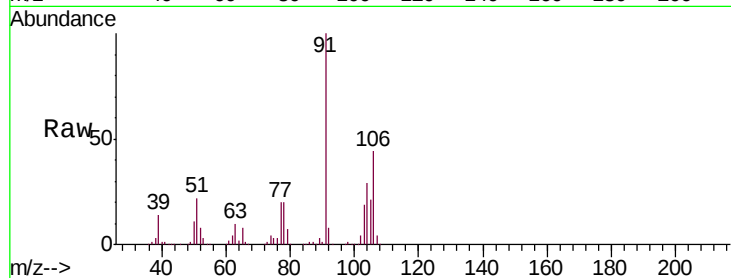
VSTD10035

Tgt Ion:106 Resp: 341919

Ion Ratio Lower Upper

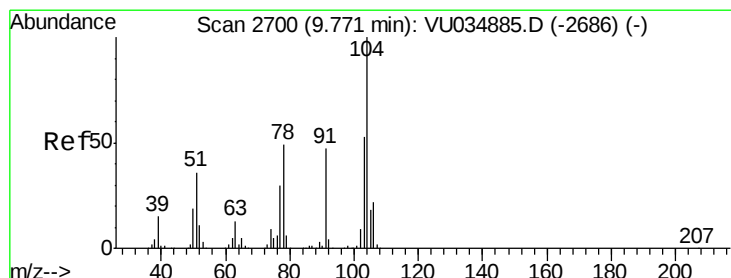
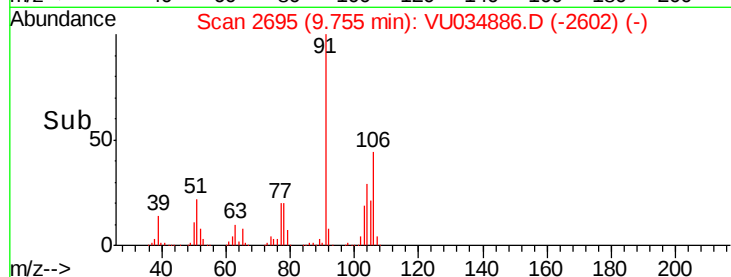
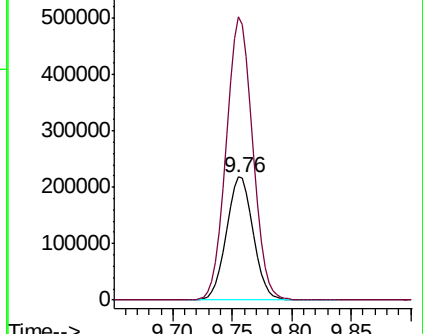
106 100

91 229.7 157.8 293.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 77.255 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VU034886.D

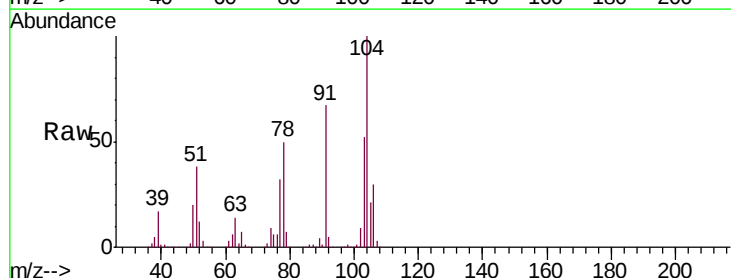
Acq: 30 Sep 2019 18:29

Tgt Ion:104 Resp: 611803

Ion Ratio Lower Upper

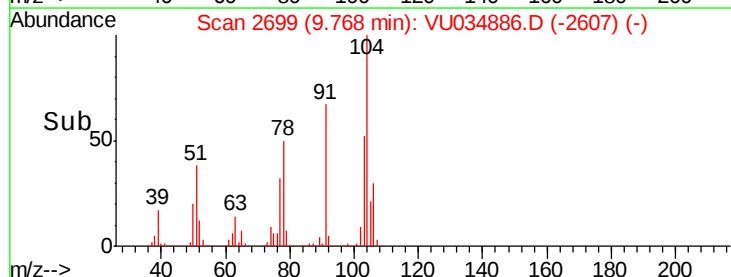
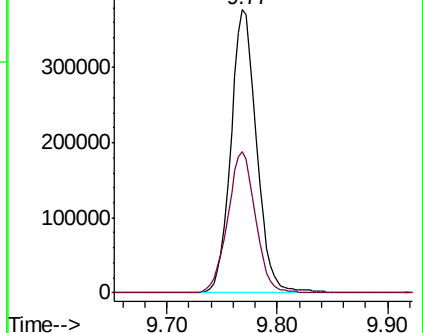
104 100

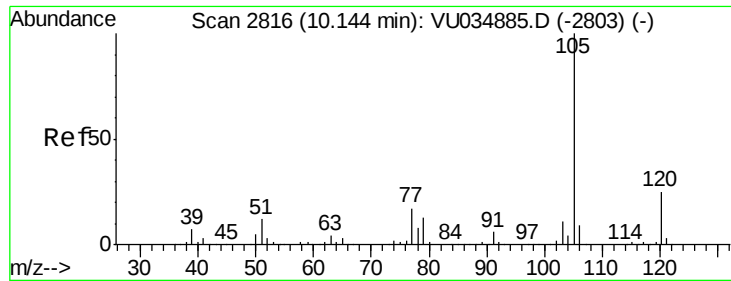
78 49.7 34.6 64.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 75.699 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

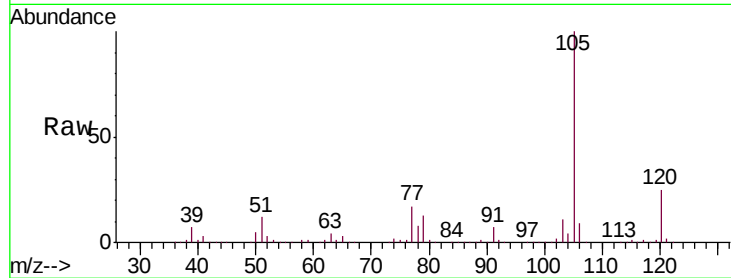
Tgt Ion: 105 Resp: 956311

Ion Ratio Lower Upper

105 100

120 25.0 20.2 30.4

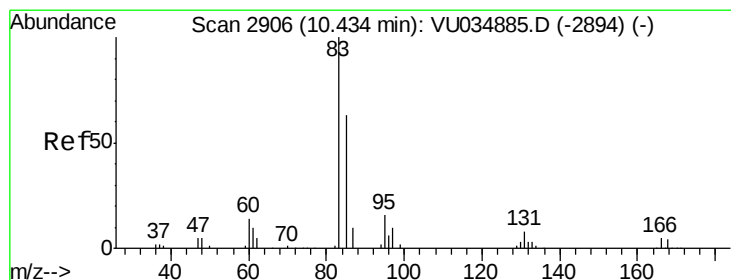
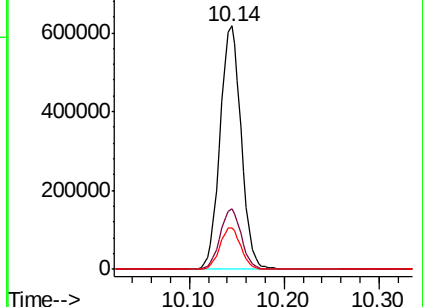
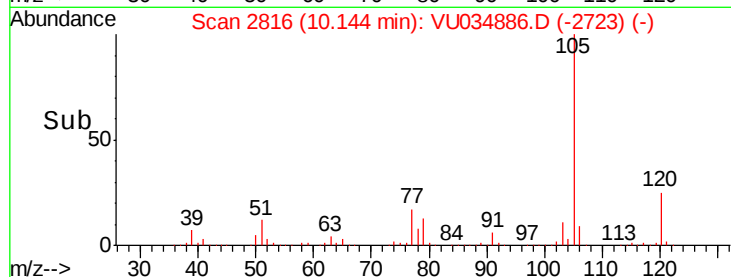
77 17.1 13.7 20.5



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: 88.390 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

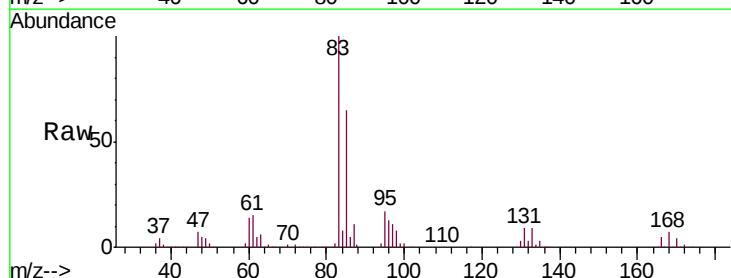
Tgt Ion: 83 Resp: 458824

Ion Ratio Lower Upper

83 100

85 64.7 44.6 82.8

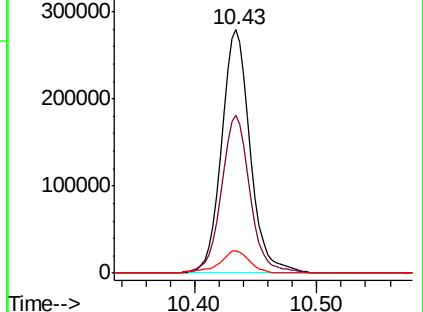
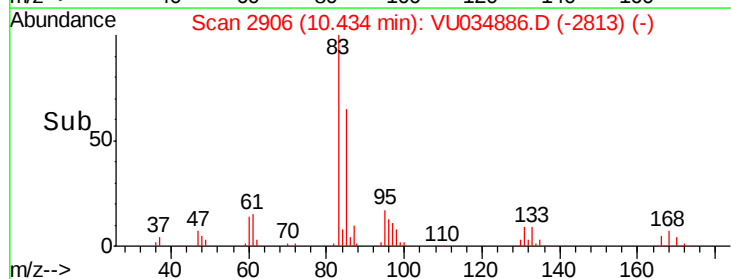
131 9.4 6.8 10.2

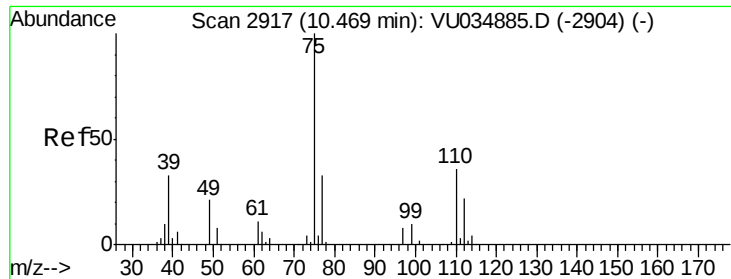


Abundance Ion 83.00 (82.70 to 83.70): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 86.523 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

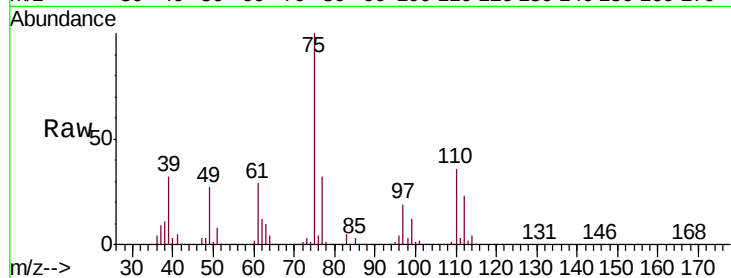
VSTD10035

Tgt Ion: 75 Resp: 363761

Ion Ratio Lower Upper

75 100

77 31.9 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VU034886.D (-2904) (-)

Ion 77.00 (76.70 to 77.70): VU034886.D (-2904) (-)

10.47

250000

200000

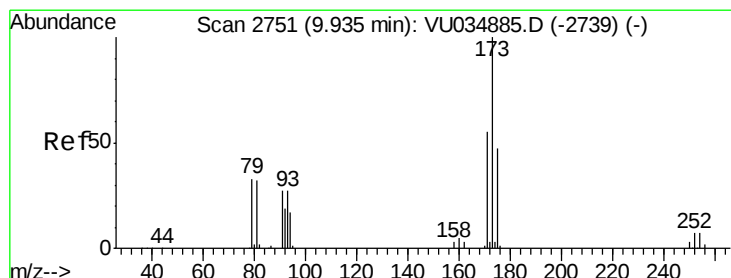
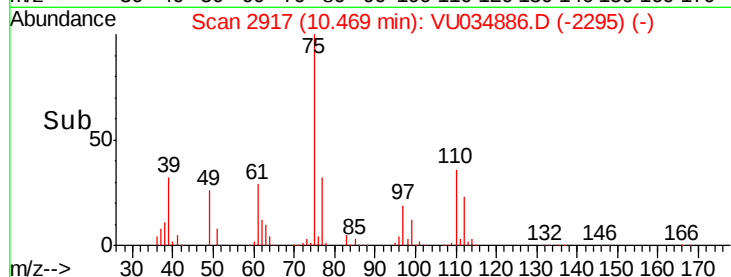
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 87.313 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

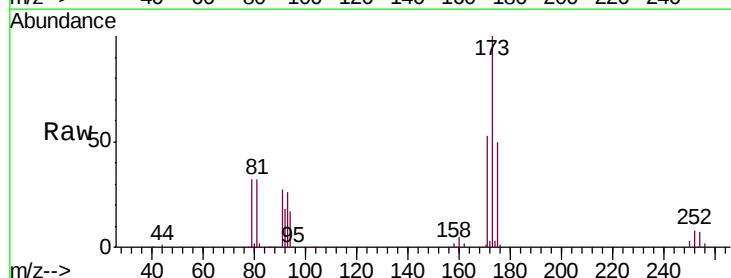
Tgt Ion: 173 Resp: 187294

Ion Ratio Lower Upper

173 100

175 49.1 37.7 56.5

254 6.8 5.5 8.3



Abundance Ion 173.00 (172.70 to 173.70): VU034886.D (-2739) (-)

Ion 175.00 (174.70 to 175.70): VU034886.D (-2739) (-)

Ion 254.00 (253.70 to 254.70): VU034886.D (-2739) (-)

9.94

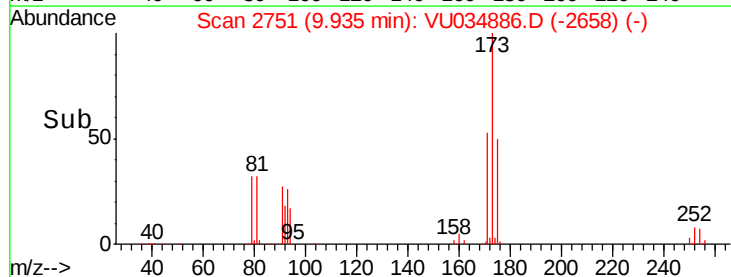
150000

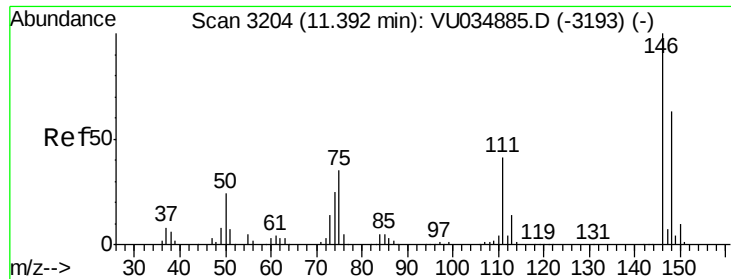
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 79.115 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

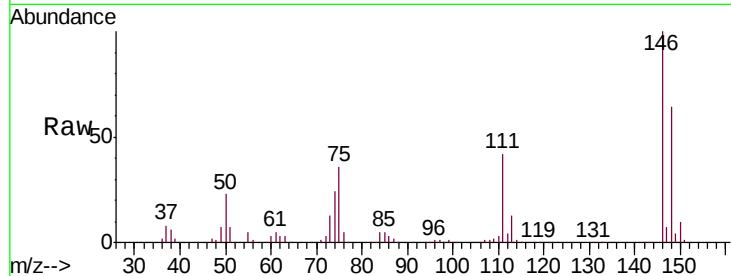
Tgt Ion:146 Resp: 425649

Ion Ratio Lower Upper

146 100

111 42.4 28.9 53.7

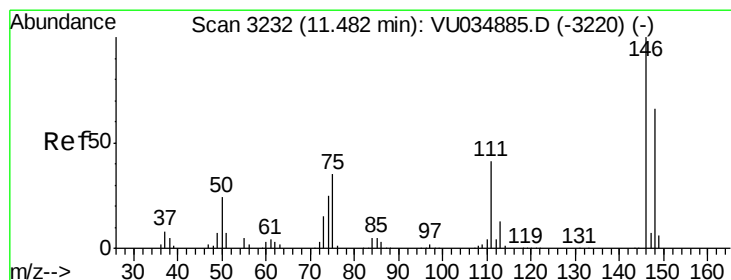
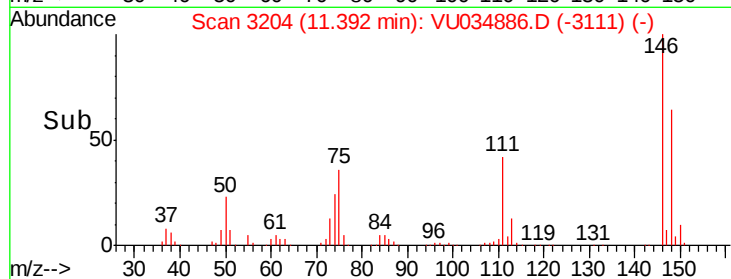
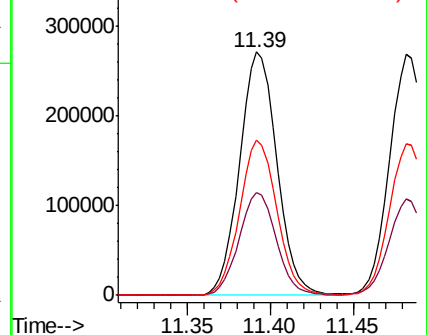
148 63.6 44.2 82.2



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: 77.639 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

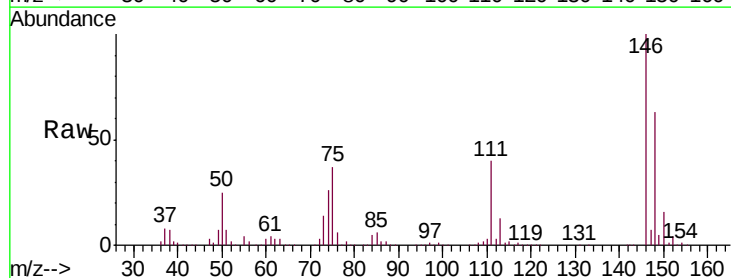
Tgt Ion:146 Resp: 424774

Ion Ratio Lower Upper

146 100

111 39.9 29.2 54.2

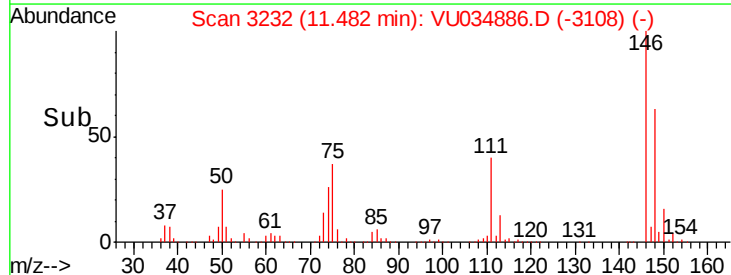
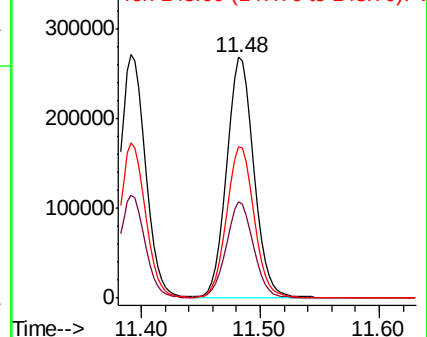
148 62.8 46.1 85.5

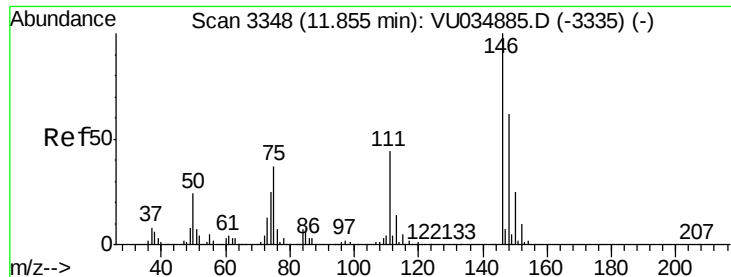


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

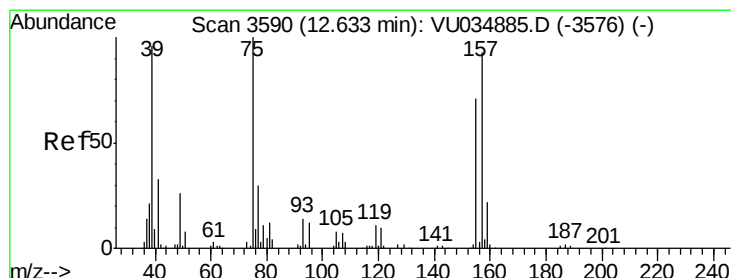
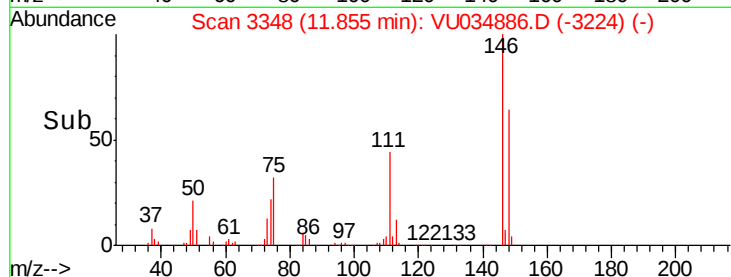
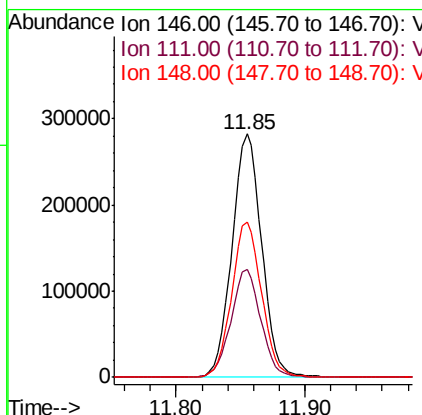
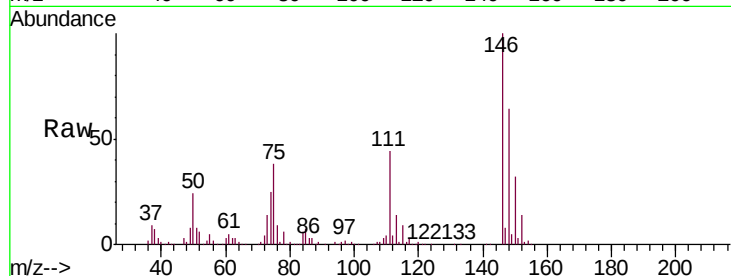




#65
 1,2-Dichlorobenzene
 Concen: 81.920 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

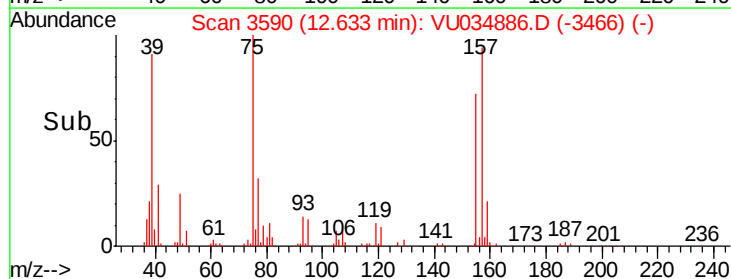
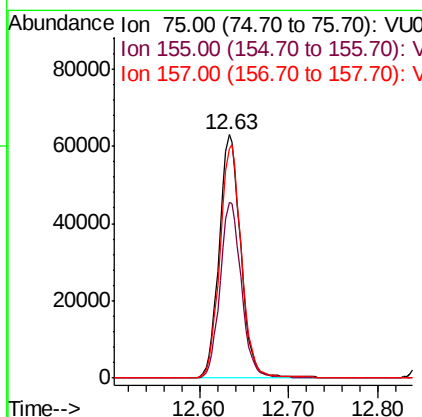
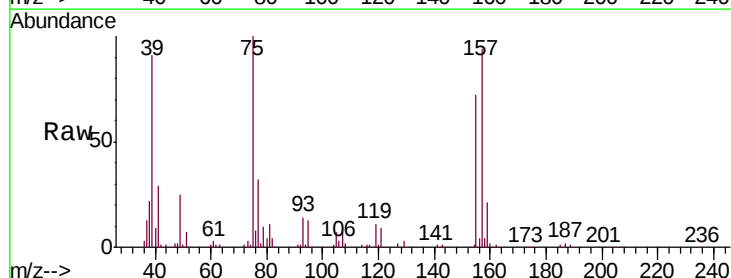
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

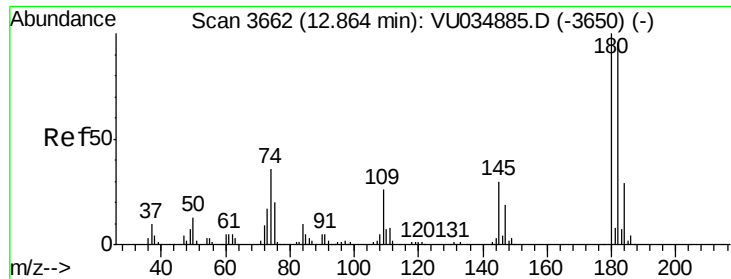
Tgt Ion: 146 Resp: 450207
 Ion Ratio Lower Upper
 146 100
 111 44.2 34.9 52.3
 148 63.9 50.0 75.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 90.671 ug/L
 RT: 12.63 min Scan# 3590
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

Tgt Ion: 75 Resp: 105948
 Ion Ratio Lower Upper
 75 100
 155 72.1 57.0 85.6
 157 94.3 74.2 111.4

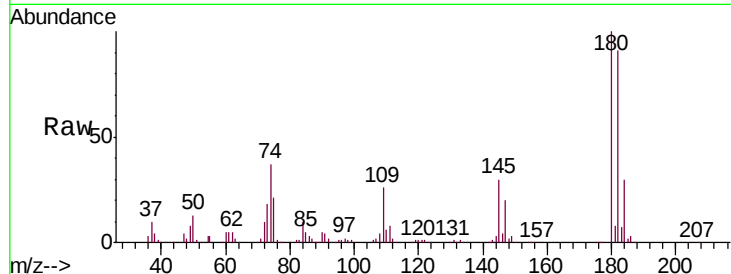




#67
 1,3,5-Trichlorobenzene
 Concen: 83.937 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.2
184	30.1	23.8	35.6
145	30.2	23.8	35.6



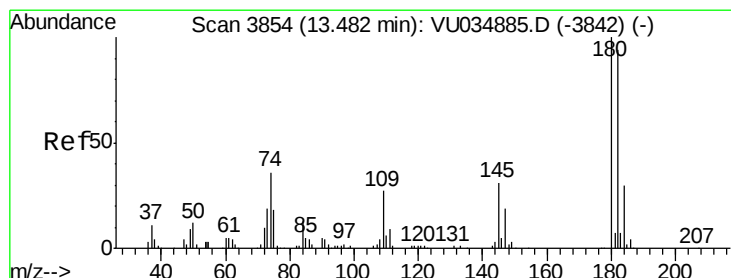
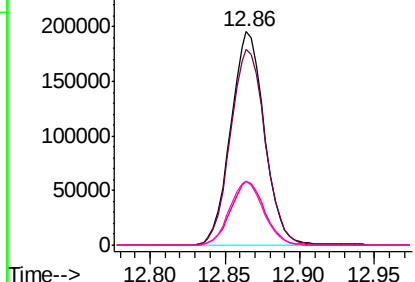
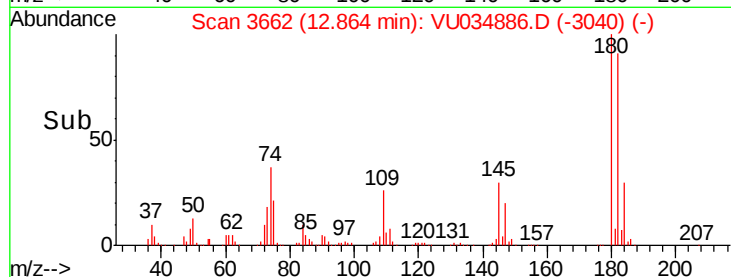
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

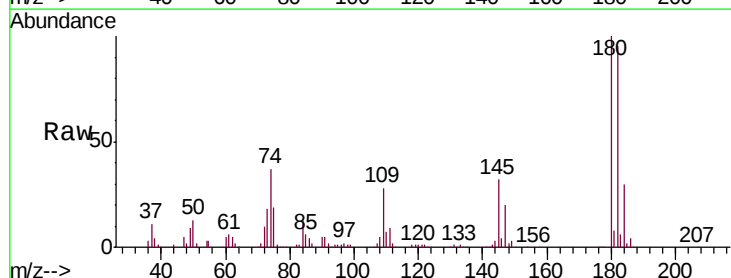
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 94.842 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034886.D
 Acq: 30 Sep 2019 18:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	73.4	110.2
145	31.4	24.4	36.6

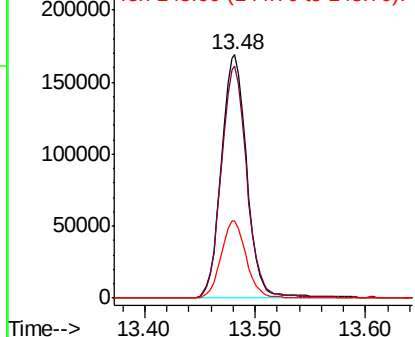
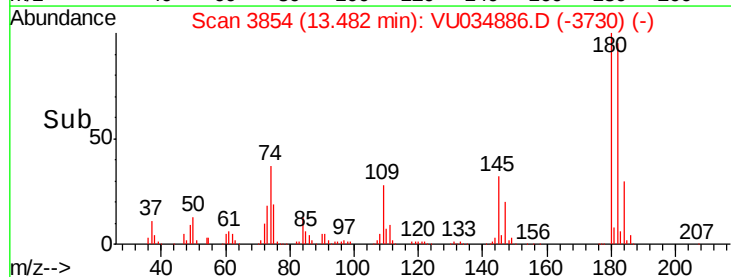


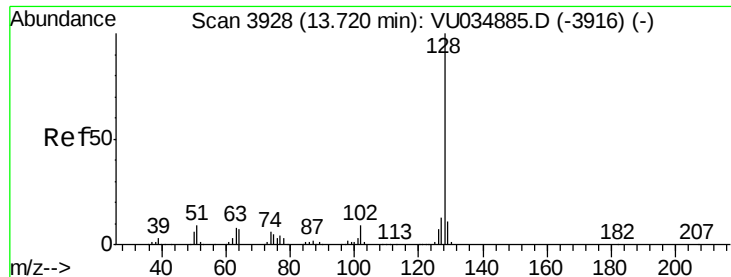
Abundance

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: 100.795 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

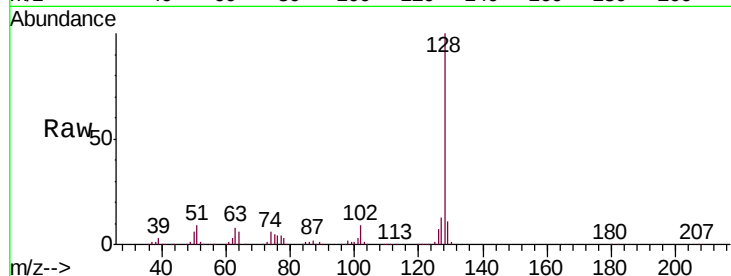
Tgt Ion:128 Resp: 993440

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

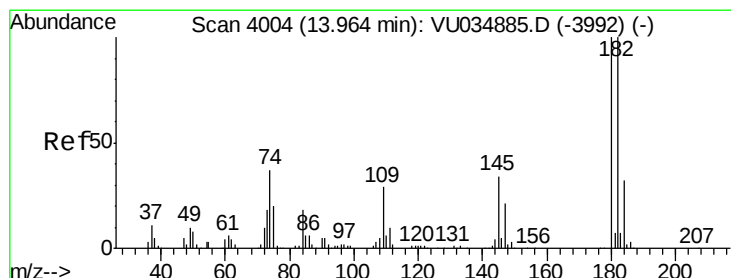
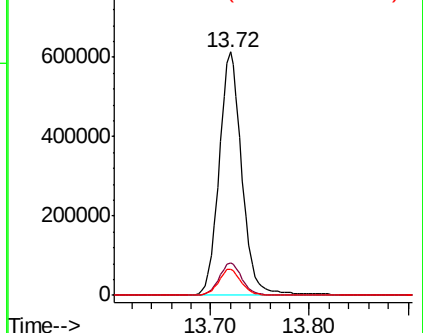
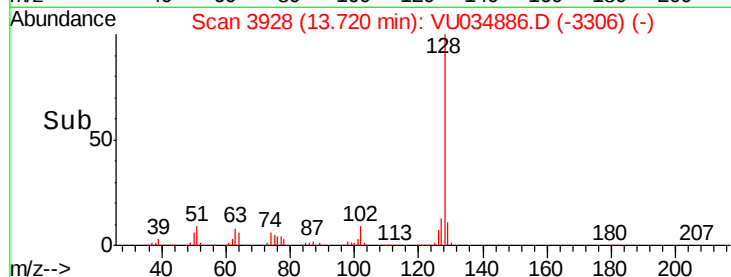
129 10.7 8.5 12.7



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: 95.215 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VU034886.D

Acq: 30 Sep 2019 18:29

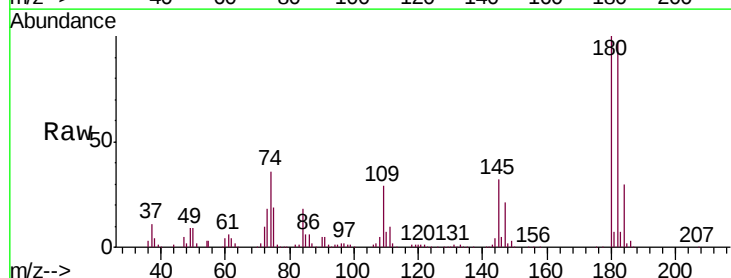
Tgt Ion:180 Resp: 283330

Ion Ratio Lower Upper

180 100

182 96.0 77.7 116.5

145 32.5 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

