

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U110119\
 Data File : VU035597.D
 Acq On : 01 Nov 2019 13:48
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Quant Time: Nov 01 17:07:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 01 17:03:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	695658	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	687750	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	316887	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	240353	42.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.56%
7) Chloroethane-d5	1.93	69	204293	45.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.06%
11) 1,1-Dichloroethene-d2	2.60	63	396944	45.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.86%
21) 2-Butanone-d5	4.69	46	300079	91.43	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.43%
24) Chloroform-d	5.11	84	408467	47.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.14%
26) 1,2-Dichloroethane-d4	5.75	65	248192	46.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.38%
32) Benzene-d6	5.77	84	840142	46.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.72%
36) 1,2-Dichloropropane-d6	6.73	67	273662	47.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.14%
41) Toluene-d8	7.93	98	803590	47.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.04%
43) trans-1,3-Dichloropropene-	8.21	79	128333	47.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.84%
47) 2-Hexanone-d5	8.67	63	207159	92.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.97%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	387517	46.87	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.74%
64) 1,2-Dichlorobenzene-d4	12.22	152	291451	45.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	270135	49.792	ug/L 98
3) Chloromethane	1.54	50	292362	49.447	ug/L 100
5) Vinyl chloride	1.62	62	307825	48.386	ug/L 99
6) Bromomethane	1.87	94	162683	50.486	ug/L 100
8) Chloroethane	1.95	64	179760	48.582	ug/L 99
9) Trichlorofluoromethane	2.16	101	375673	49.850	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	222802	51.498	ug/L 100
12) 1,1-Dichloroethene	2.61	96	207518	48.834	ug/L 92
13) Acetone	2.66	43	273296	94.646	ug/L 99
14) Carbon disulfide	2.82	76	606968	46.361	ug/L 99
15) Methyl Acetate	2.99	43	246078	47.050	ug/L 99
16) Methylene chloride	3.08	84	253815	48.951	ug/L 98
17) trans-1,2-Dichloroethene	3.39	96	221050	49.396	ug/L 97
18) Methyl tert-butyl Ether	3.42	73	679439	50.218	ug/L 99
19) 1,1-Dichloroethane	3.92	63	426128	49.363	ug/L 100
20) cis-1,2-Dichloroethene	4.72	96	253264	50.176	ug/L 96
22) 2-Butanone	4.77	43	360755	94.642	ug/L 96

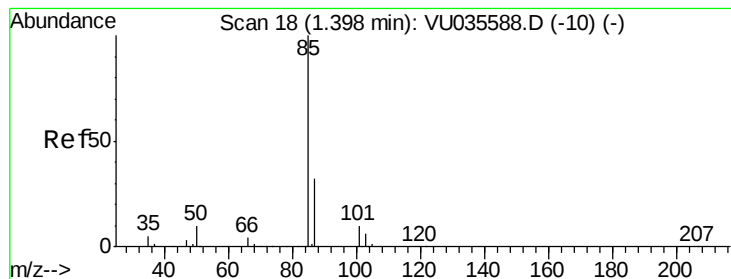
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 Quant Title : VOC Analysis
 QLast Update : Fri Nov 01 17:03:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	133458	50.036	ug/L	97
25) Chloroform	5.13	83	433306	49.424	ug/L	99
27) 1,2-Dichloroethane	5.84	62	319171	49.830	ug/L	100
29) Cyclohexane	5.43	56	347419	49.525	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	355283	49.150	ug/L	99
31) Carbon tetrachloride	5.56	117	316924	49.308	ug/L	100
33) Benzene	5.82	78	959286	49.630	ug/L	100
34) Trichloroethene	6.58	95	239697	48.780	ug/L	98
35) Methylcyclohexane	6.80	83	344087	48.214	ug/L	100
37) 1,2-Dichloropropane	6.83	63	260752	50.376	ug/L	99
38) Bromodichloromethane	7.14	83	320453	48.707	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	397578	51.676	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	630920	91.111	ug/L	98
42) Toluene	8.00	91	1050674	51.864	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	353330	50.101	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	241683	48.714	ug/L	99
46) Tetrachloroethene	8.58	164	204500	49.771	ug/L	98
48) 2-Hexanone	8.73	43	506067	89.868	ug/L	95
49) Dibromochloromethane	8.84	129	276021	49.334	ug/L	100
50) 1,2-Dibromoethane	8.96	107	264636	49.994	ug/L	100
51) Chlorobenzene	9.48	112	672482	49.725	ug/L	99
52) Ethylbenzene	9.60	91	1098754	50.734	ug/L	98
53) m,p-Xylene	9.72	106	432887	53.268	ug/L	96
54) o-xylene	10.13	106	414367	52.169	ug/L	98
55) Styrene	10.14	104	696862	52.866	ug/L	98
56) Isopropylbenzene	10.51	105	1046726	52.442	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	413001	48.329	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	317717	47.075	ug/L	99
61) Bromoform	10.32	173	214638	44.398	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	473340	47.350	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	472216	46.499	ug/L	97
65) 1,2-Dichlorobenzene	12.24	146	475895	46.761	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	66103	41.892	ug/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	255716	44.277	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	142718	36.890	ug/L	99
69) Naphthalene	14.11	128	319029	32.150	ug/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	151748	36.404	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 49.792 ug/L

RT: 1.40 min Scan# 18

Delta R.T. -0.00 min

Lab File: VU035597.D

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MSVOA_U

ClientSampleId :

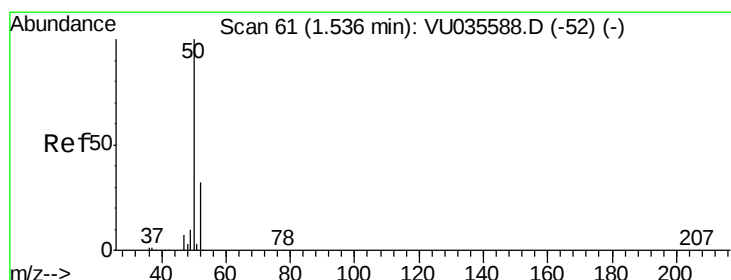
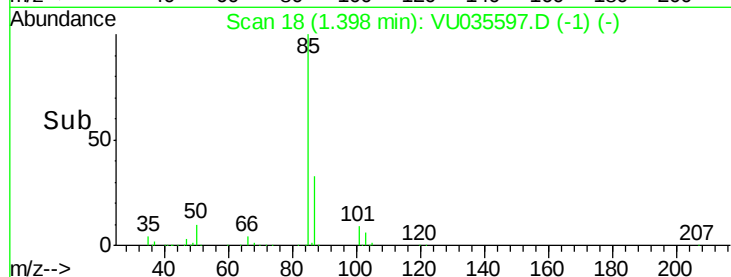
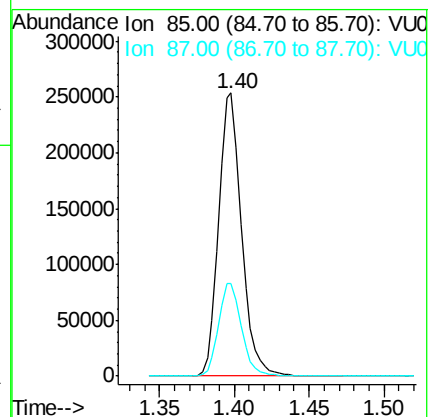
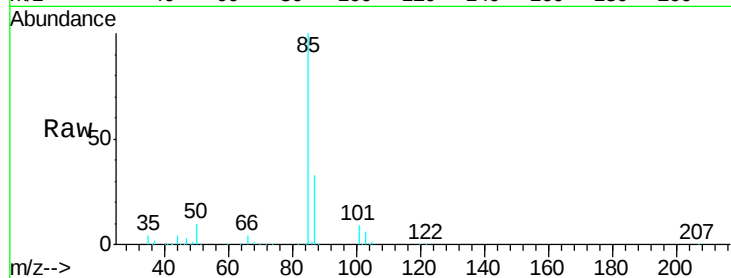
VSTD05034

Tgt Ion: 85 Resp: 270135

Ion Ratio Lower Upper

85 100

87 32.9 25.7 38.5



#3

Chloromethane

Concen: 49.447 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035597.D

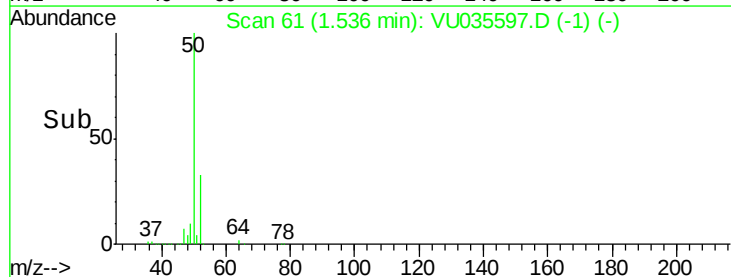
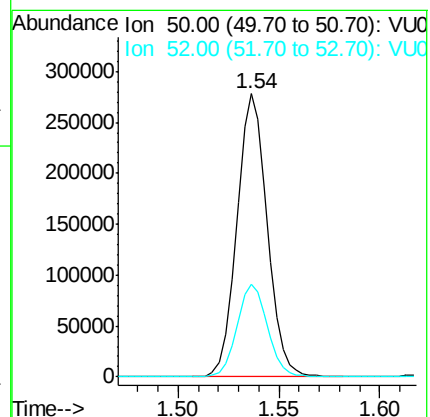
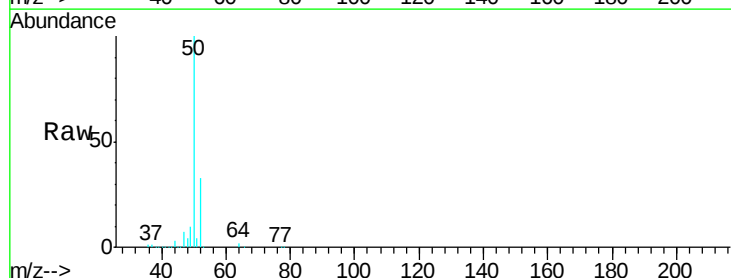
Acq: 01 Nov 2019 13:48

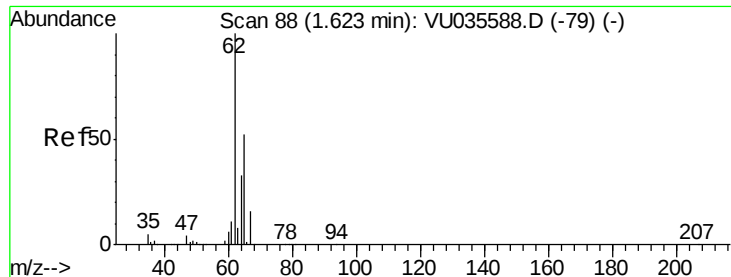
Tgt Ion: 50 Resp: 292362

Ion Ratio Lower Upper

50 100

52 32.9 23.0 42.6





#5

Vinyl chloride

Concen: 48.386 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

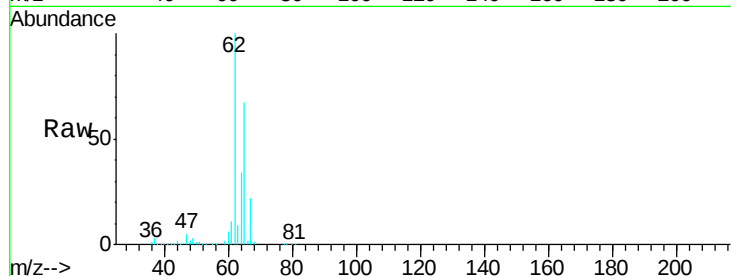
VSTD05034

Tgt Ion: 62 Resp: 307825

Ion Ratio Lower Upper

62 100

64 34.4 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU035588.D (-79) (-)

Ion 64.00 (63.70 to 64.70): VU035588.D (-79) (-)

1.62

300000

250000

200000

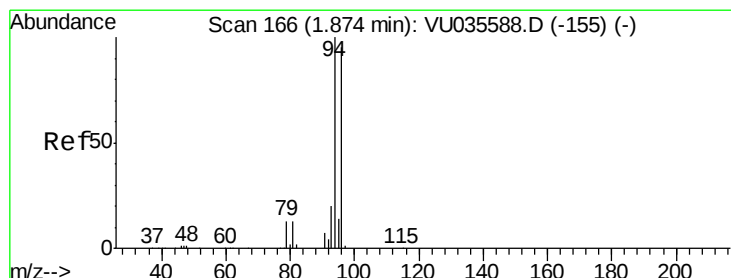
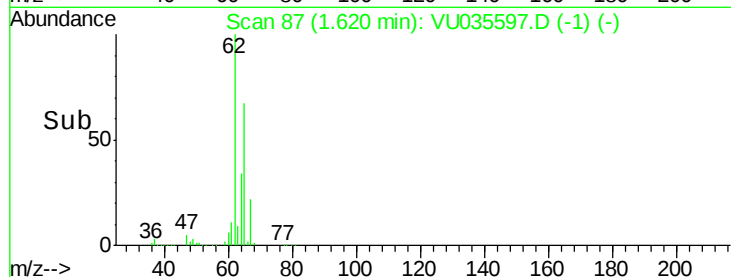
150000

100000

50000

0

Time--> 1.55 1.60 1.65 1.70



#6

Bromomethane

Concen: 50.486 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035597.D

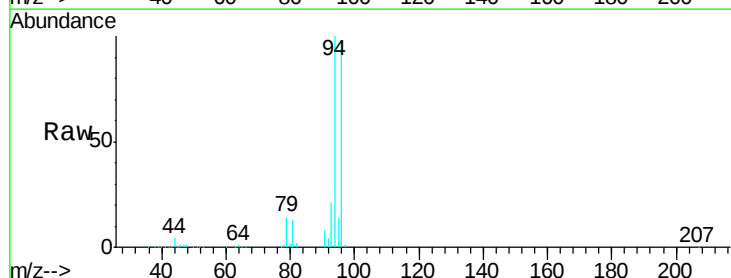
Acq: 01 Nov 2019 13:48

Tgt Ion: 94 Resp: 162683

Ion Ratio Lower Upper

94 100

96 96.5 67.5 125.4



Abundance Ion 94.00 (93.70 to 94.70): VU035588.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU035588.D (-155) (-)

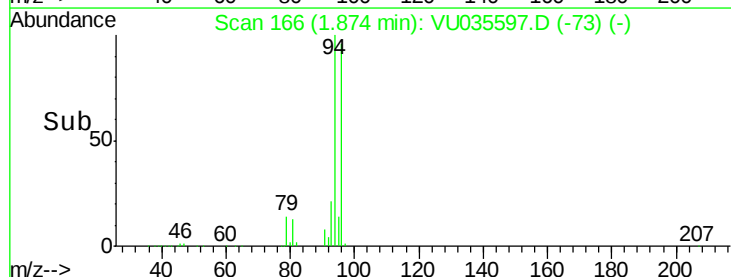
1.87

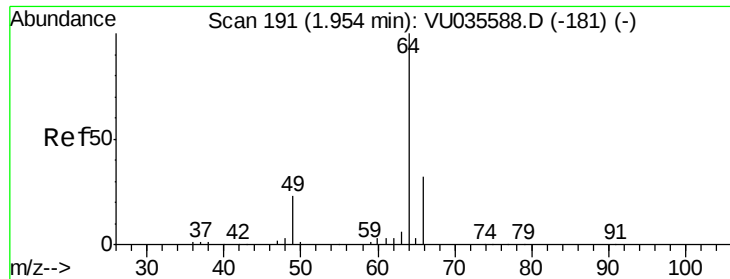
100000

50000

0

Time--> 1.80 1.85 1.90 1.95

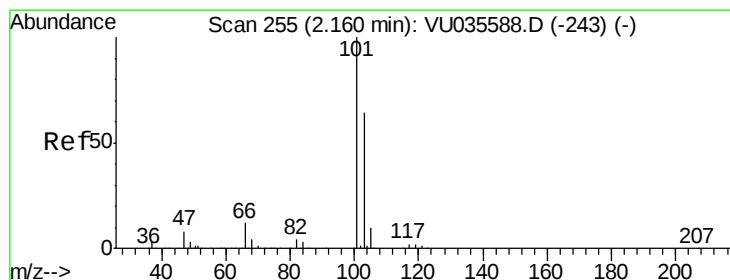
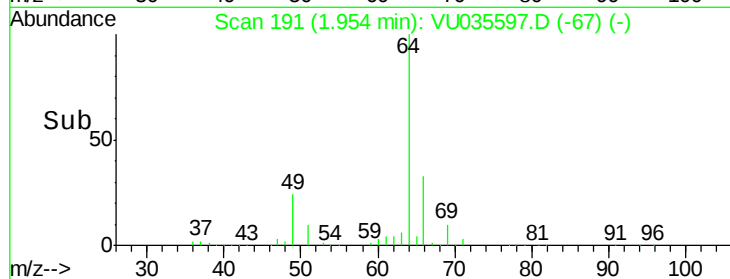
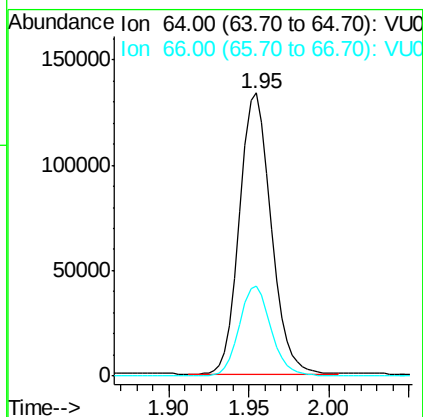
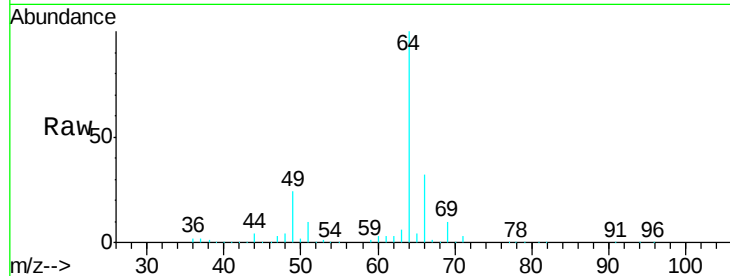




#8
Chloroethane
Concen: 48.582 ug/L
RT: 1.95 min Scan# 191
Delta R.T. -0.00 min
Lab File: VU035597.D
Acq: 01 Nov 2019 13:48

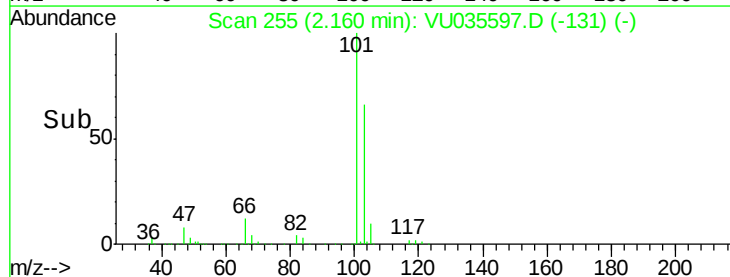
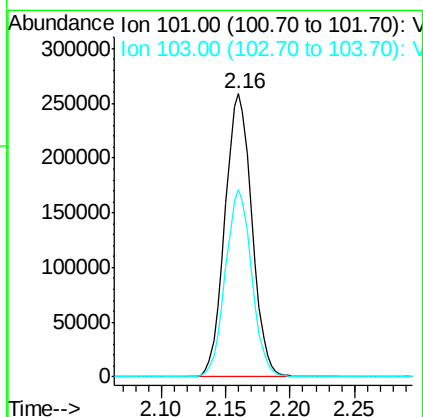
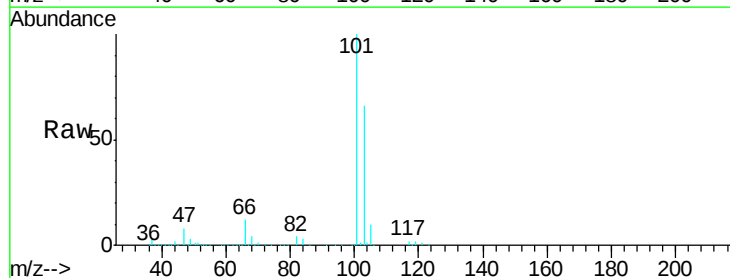
Instrument :
MSVOA_U
ClientSampled :
VSTD05034

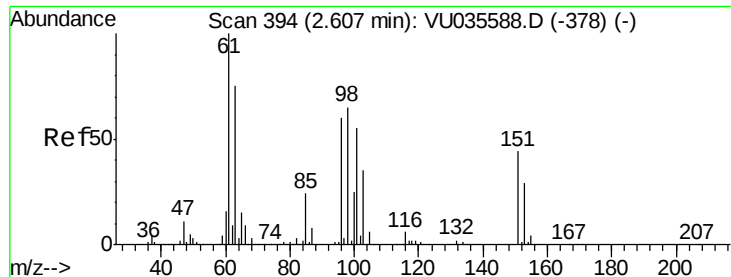
Tgt Ion: 64 Resp: 179760
Ion Ratio Lower Upper
64 100
66 31.8 22.8 42.4



#9
Trichlorofluoromethane
Concen: 49.850 ug/L
RT: 2.16 min Scan# 255
Delta R.T. -0.00 min
Lab File: VU035597.D
Acq: 01 Nov 2019 13:48

Tgt Ion: 101 Resp: 375673
Ion Ratio Lower Upper
101 100
103 64.5 51.8 77.6





#10

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

Concen: 51.498 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

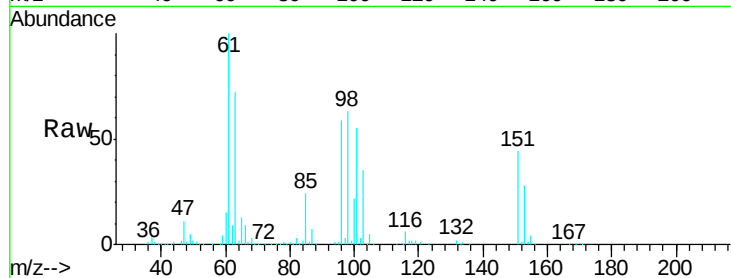
Tgt Ion: 101 Resp: 222802

Ion Ratio Lower Upper

101 100

85 42.2 34.0 51.0

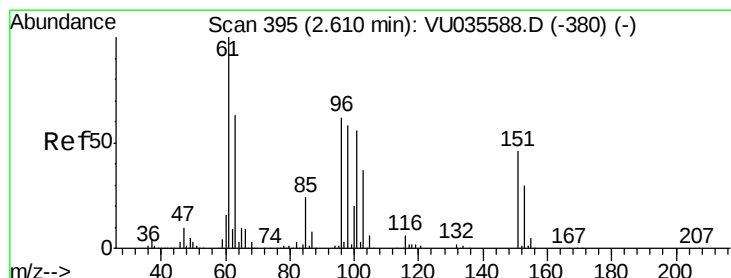
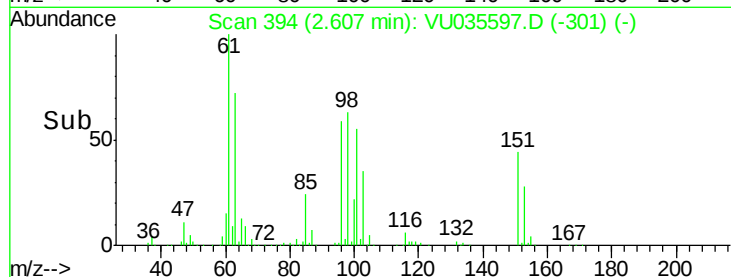
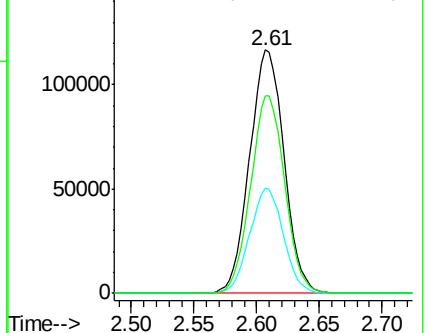
151 80.3 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 48.834 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

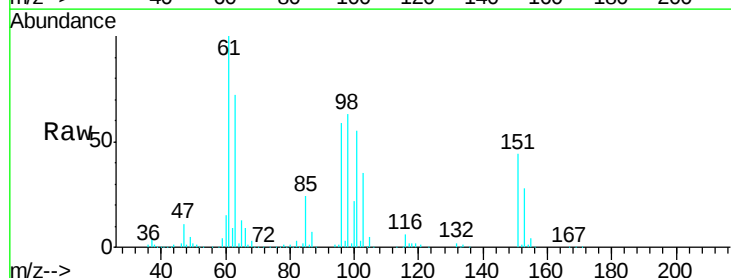
Tgt Ion: 96 Resp: 207518

Ion Ratio Lower Upper

96 100

61 168.4 113.1 210.1

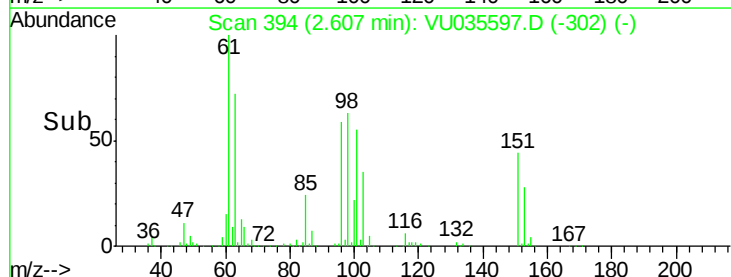
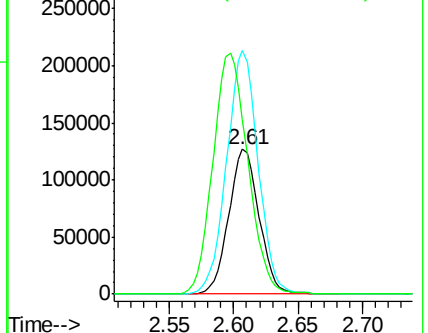
63 121.0 76.2 141.4

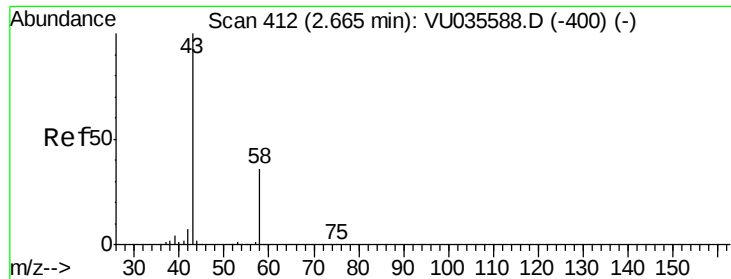


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 94.646 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

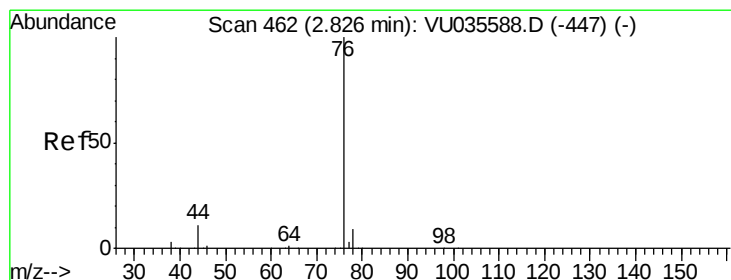
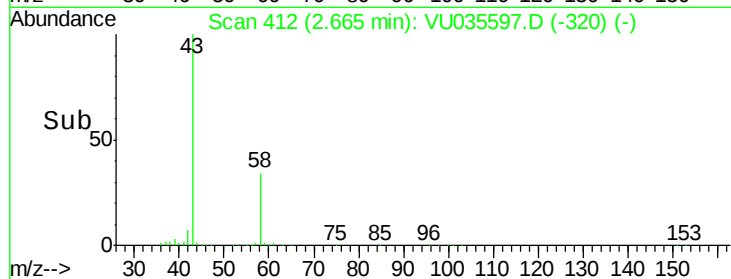
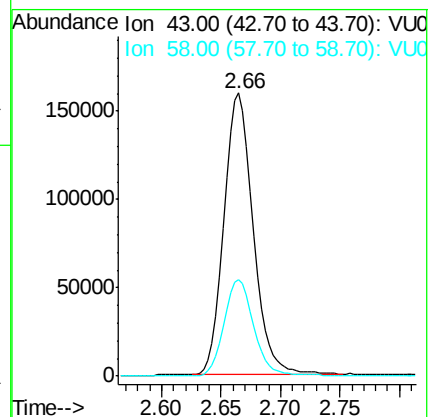
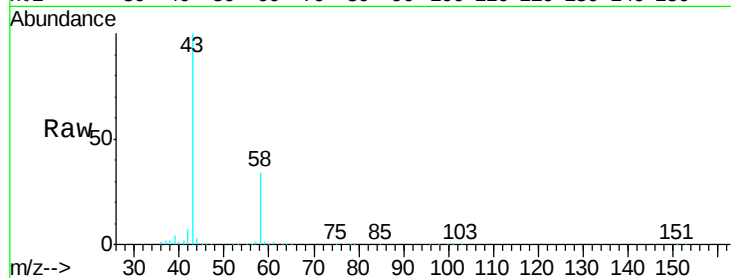
VSTD05034

Tgt Ion: 43 Resp: 273296

Ion Ratio Lower Upper

43 100

58 34.5 0.0 70.0



#14

Carbon disulfide

Concen: 46.361 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035597.D

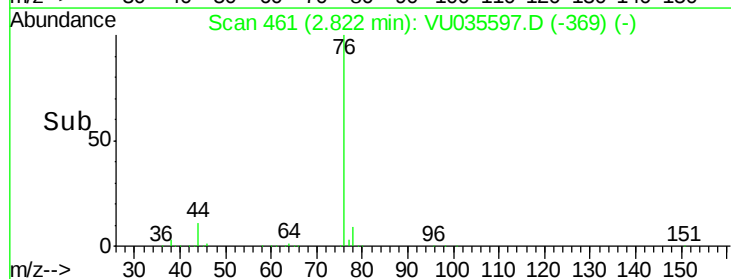
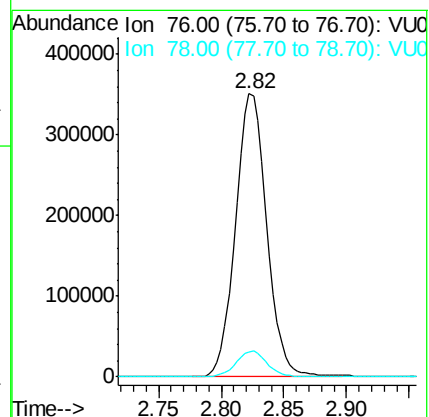
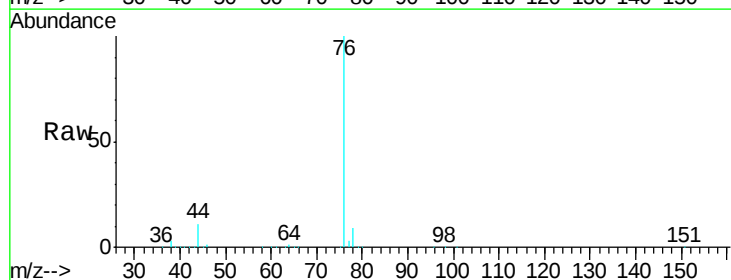
Acq: 01 Nov 2019 13:48

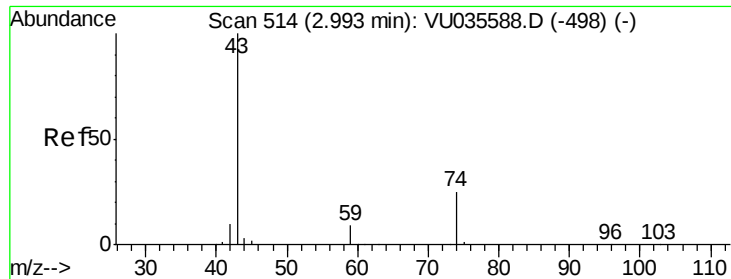
Tgt Ion: 76 Resp: 606968

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0





#15

Methyl Acetate

Concen: 47.050 ug/L

RT: 2.99 min Scan# 513

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

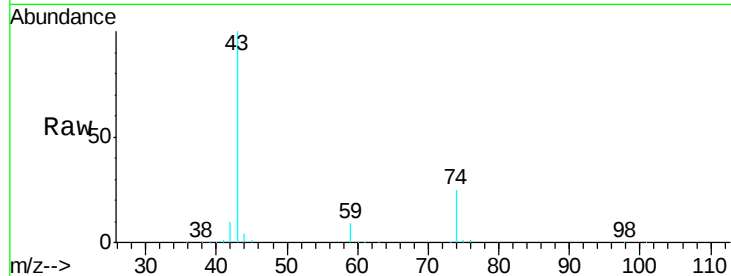
VSTD05034

Tgt Ion: 43 Resp: 246078

Ion Ratio Lower Upper

43 100

74 25.2 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VU035588.D (-498) (-)

Ion 74.00 (73.70 to 74.70): VU035588.D (-498) (-)

2.99

150000

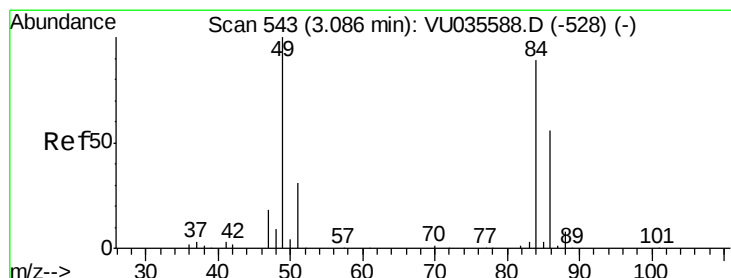
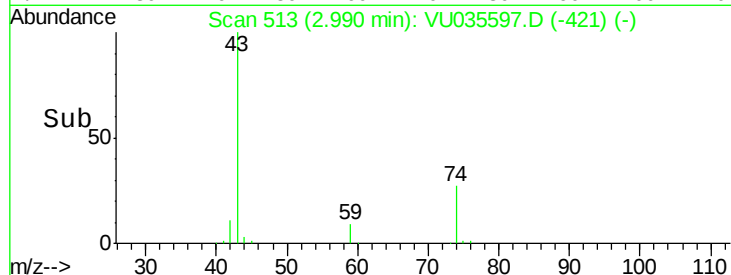
100000

50000

0

Time-->

2.90 2.95 3.00 3.05



#16

Methylene chloride

Concen: 48.951 ug/L

RT: 3.08 min Scan# 542

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

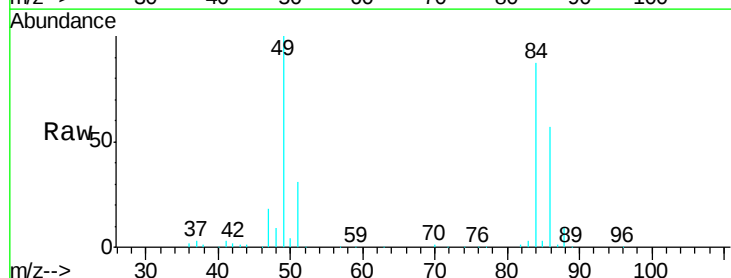
Tgt Ion: 84 Resp: 253815

Ion Ratio Lower Upper

84 100

86 65.2 45.1 83.7

49 115.1 82.7 153.5



Abundance Ion 84.00 (83.70 to 84.70): VU035588.D (-528) (-)

Ion 86.00 (85.70 to 86.70): VU035588.D (-528) (-)

Ion 49.00 (48.70 to 49.70): VU035588.D (-528) (-)

3.08

200000

150000

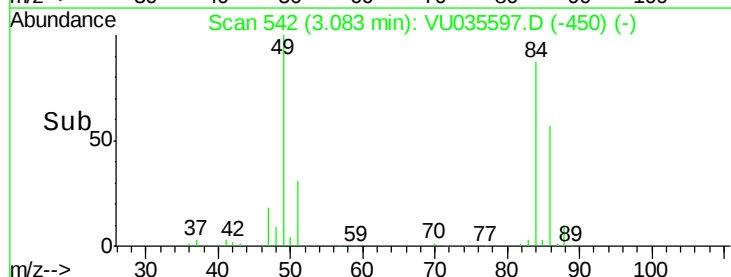
100000

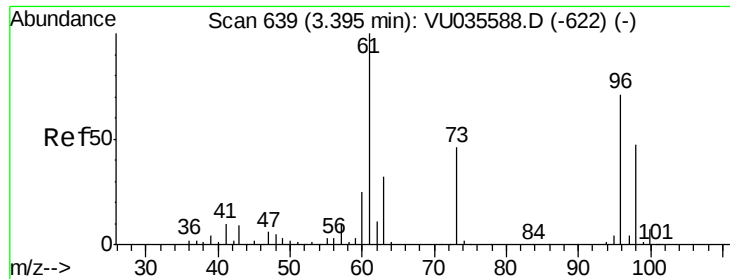
50000

0

Time-->

3.00 3.10 3.20





#17

trans-1,2-Dichloroethene

Concen: 49.396 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.01 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

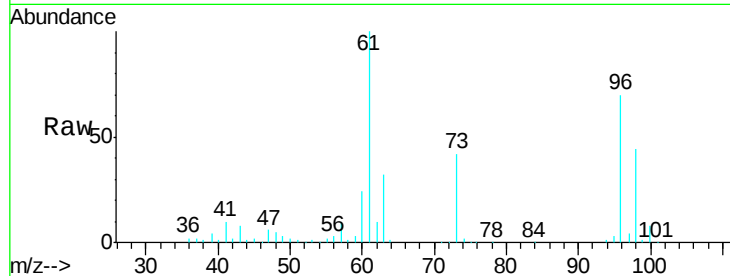
Tgt Ion: 96 Resp: 221050

Ion Ratio Lower Upper

96 100

61 142.0 95.3 176.9

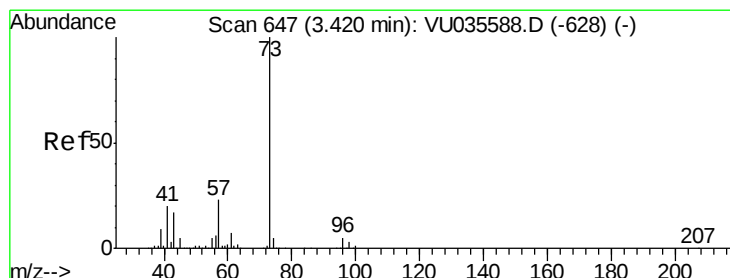
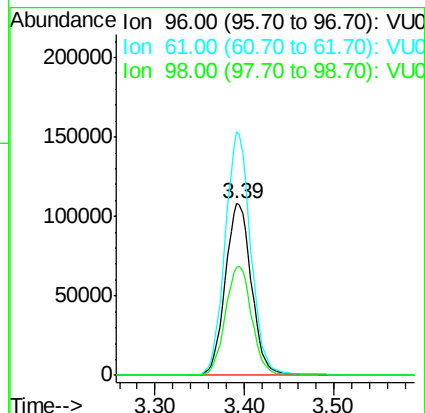
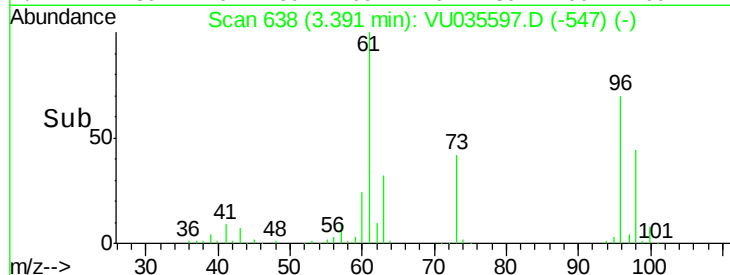
98 63.1 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU035588.D (-622) (-)

Ion 61.00 (60.70 to 61.70): VU035588.D (-622) (-)

Ion 98.00 (97.70 to 98.70): VU035588.D (-622) (-)



#18

Methyl tert-butyl Ether

Concen: 50.218 ug/L

RT: 3.42 min Scan# 646

Delta R.T. -0.01 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

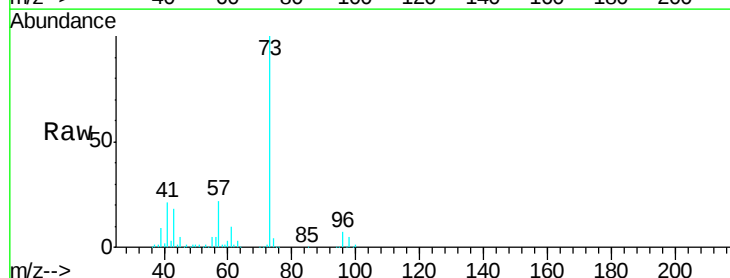
Tgt Ion: 73 Resp: 679439

Ion Ratio Lower Upper

73 100

43 17.8 14.2 21.2

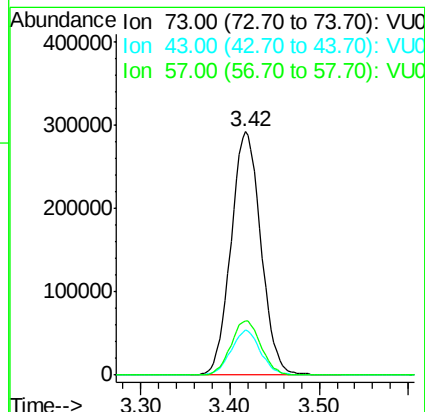
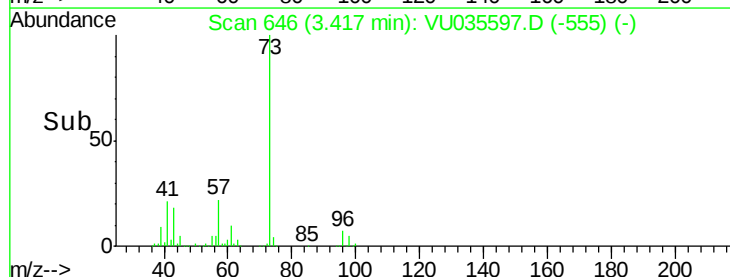
57 22.4 18.3 27.5

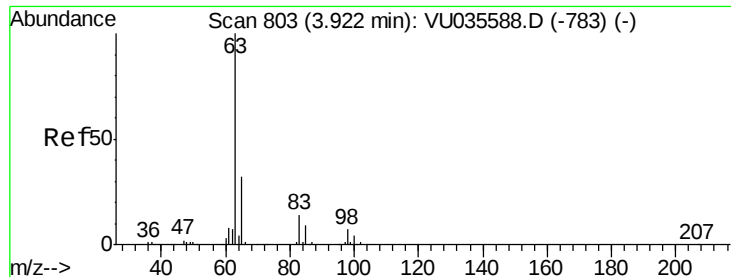


Abundance Ion 73.00 (72.70 to 73.70): VU035588.D (-628) (-)

Ion 43.00 (42.70 to 43.70): VU035588.D (-628) (-)

Ion 57.00 (56.70 to 57.70): VU035588.D (-628) (-)

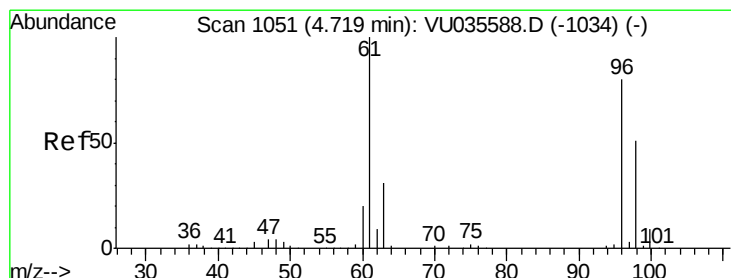
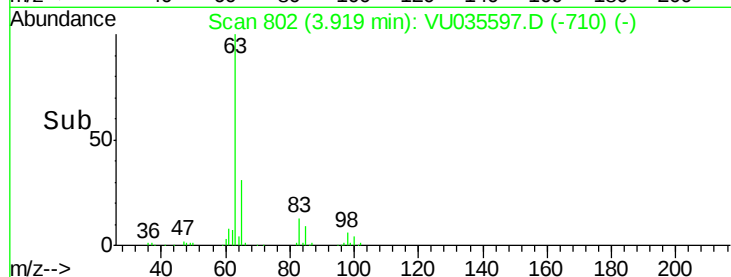
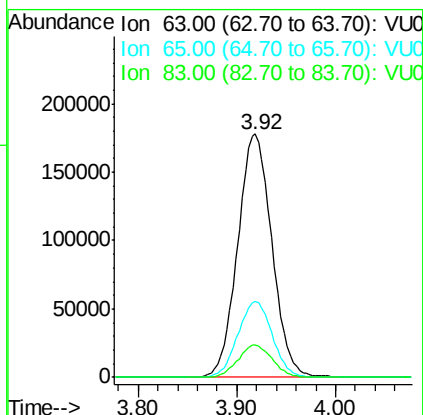
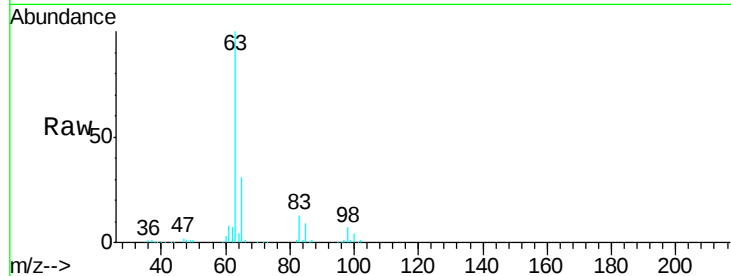




#19
 1,1-Dichloroethane
 Concen: 49.363 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

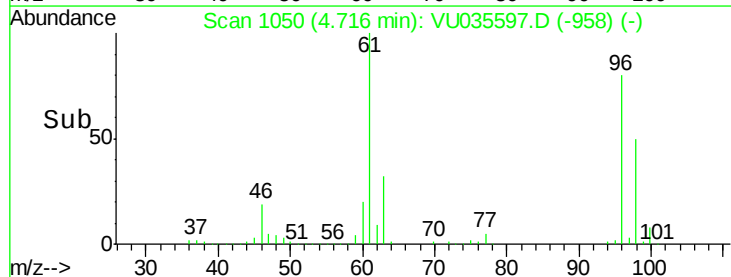
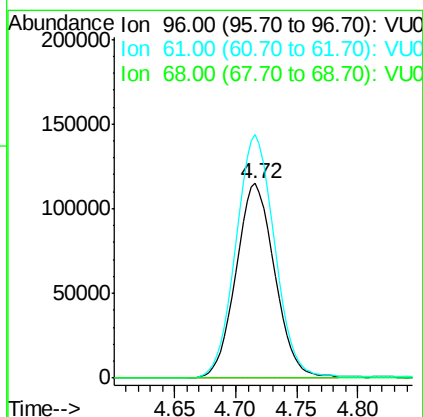
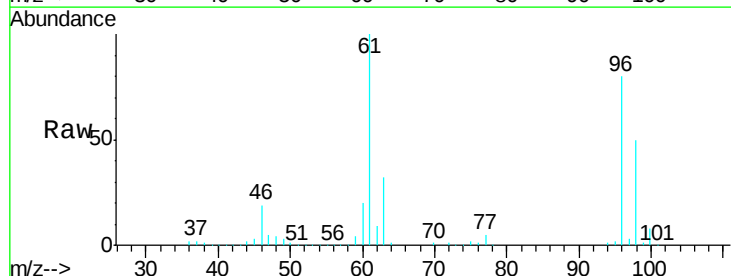
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

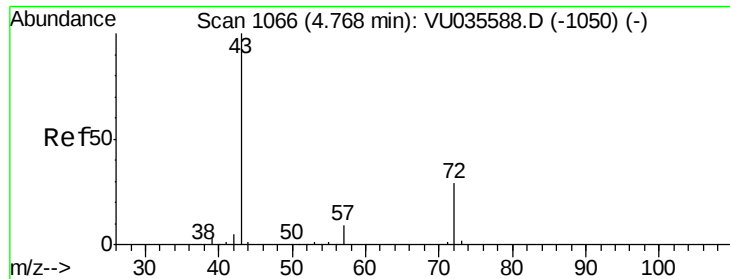
Tgt Ion: 63 Resp: 426128
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.1 41.1
 83 13.3 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 50.176 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

Tgt Ion: 96 Resp: 253264
 Ion Ratio Lower Upper
 96 100
 61 125.2 90.6 168.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 94.642 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. -0.01 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampled :

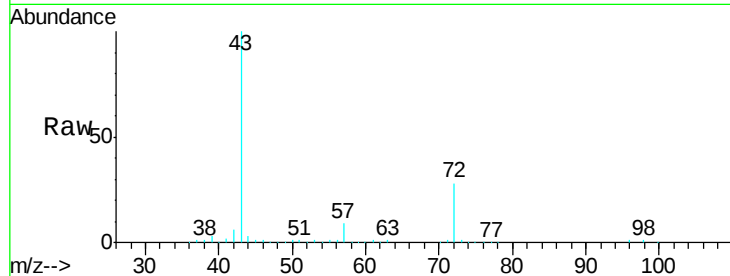
VSTD05034

Tgt Ion: 43 Resp: 360755

Ion Ratio Lower Upper

43 100

72 28.9 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VU035588.D (-1050) (-)

Ion 72.00 (71.70 to 72.70): VU035588.D (-1050) (-)

4.77

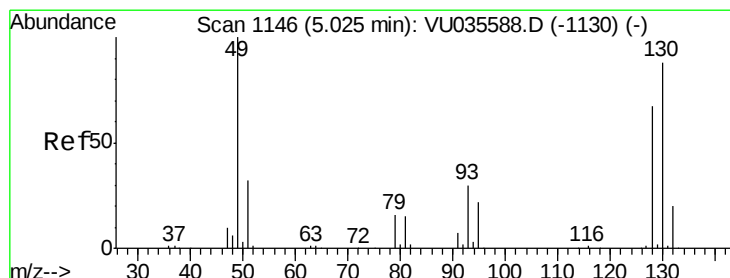
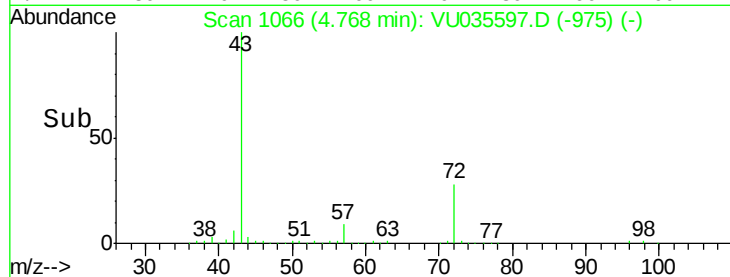
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 50.036 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.01 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Tgt Ion: 128 Resp: 133458

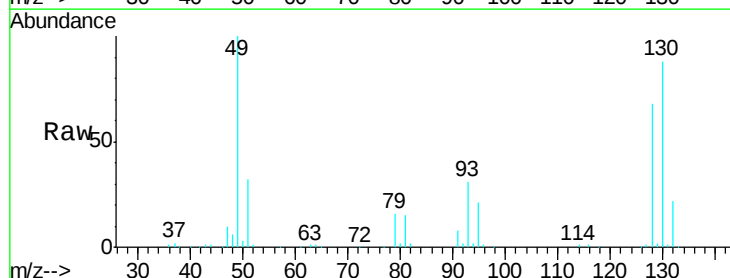
Ion Ratio Lower Upper

128 100

49 147.8 106.4 197.6

130 129.9 88.1 163.5

51 46.6 38.8 58.2



Abundance Ion 128.00 (127.70 to 128.70): VU035588.D (-1130) (-)

Ion 49.00 (48.70 to 49.70): VU035588.D (-1130) (-)

Ion 130.00 (129.70 to 130.70): VU035588.D (-1130) (-)

Ion 51.00 (50.70 to 51.70): VU035588.D (-1130) (-)

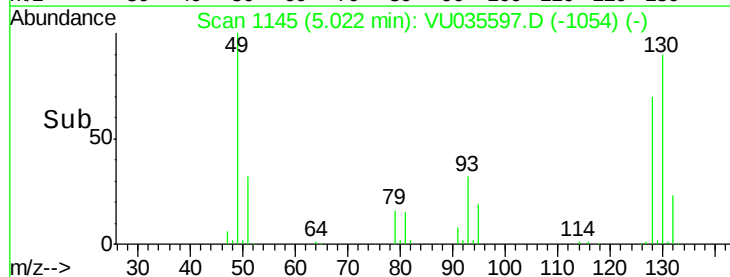
5.02

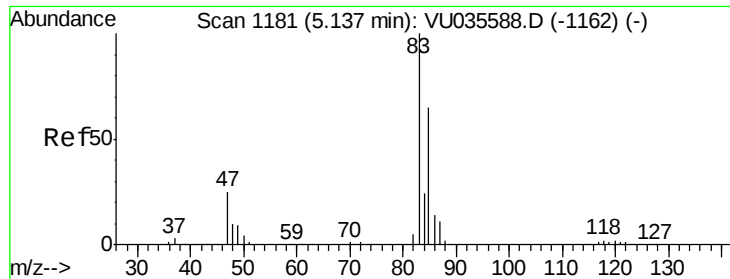
100000

50000

0

Time-->





#25

Chloroform

Concen: 49.424 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

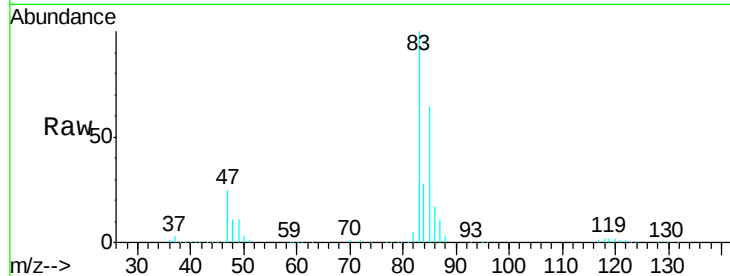
VSTD05034

Tgt Ion: 83 Resp: 433306

Ion Ratio Lower Upper

83 100

85 63.9 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VU035588.D (-1162) (-)

Ion 85.00 (84.70 to 85.70): VU035588.D (-1162) (-)

5.13

200000

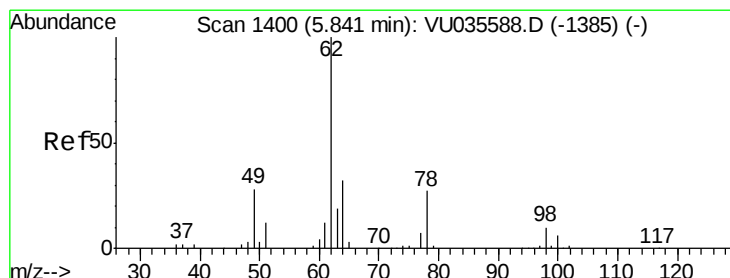
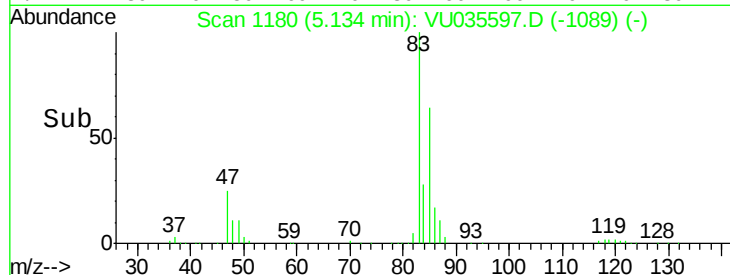
150000

100000

50000

0

Time--> 5.00 5.10 5.20



#27

1,2-Dichloroethane

Concen: 49.830 ug/L

RT: 5.84 min Scan# 1399

Delta R.T. -0.01 min

Lab File: VU035597.D

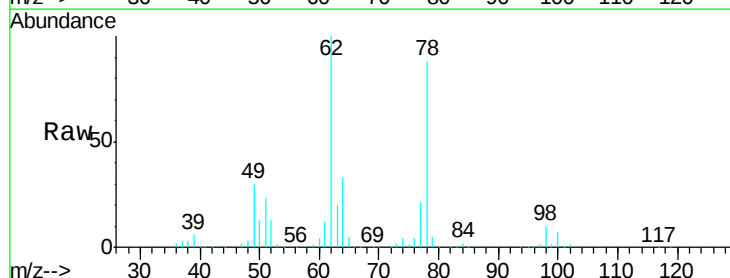
Acq: 01 Nov 2019 13:48

Tgt Ion: 62 Resp: 319171

Ion Ratio Lower Upper

62 100

98 10.0 8.2 12.2



Abundance Ion 62.00 (61.70 to 62.70): VU035588.D (-1385) (-)

Ion 98.00 (97.70 to 98.70): VU035588.D (-1385) (-)

5.84

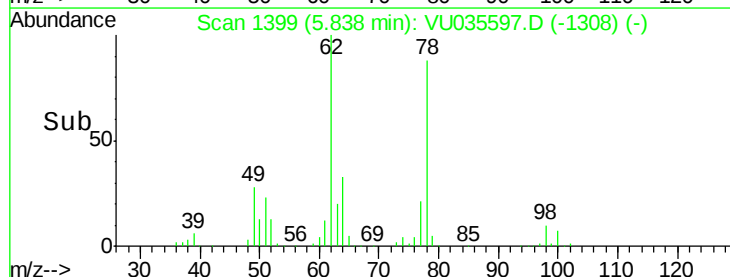
150000

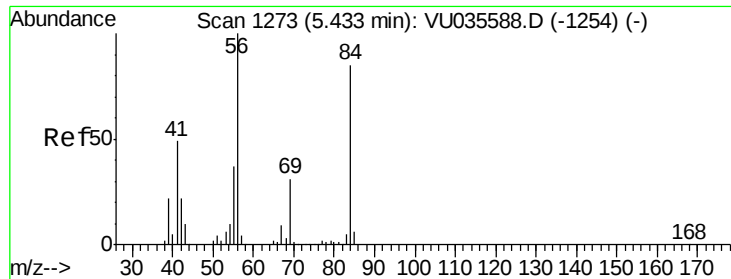
100000

50000

0

Time--> 5.75 5.80 5.85 5.90 5.95

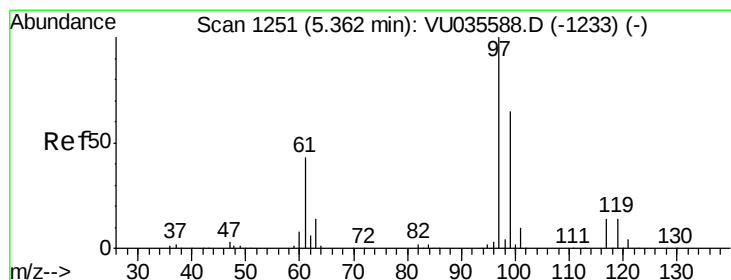
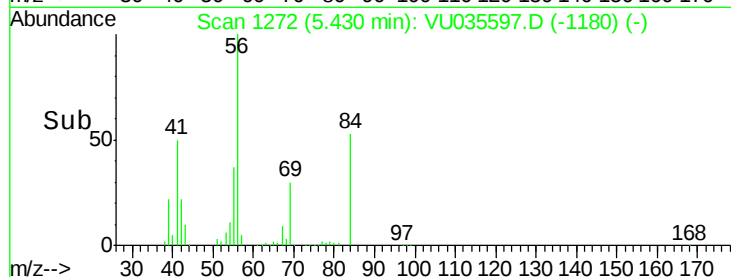
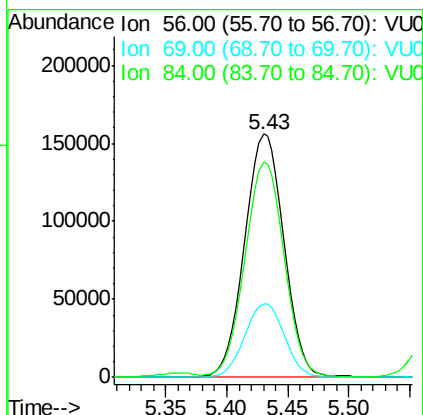
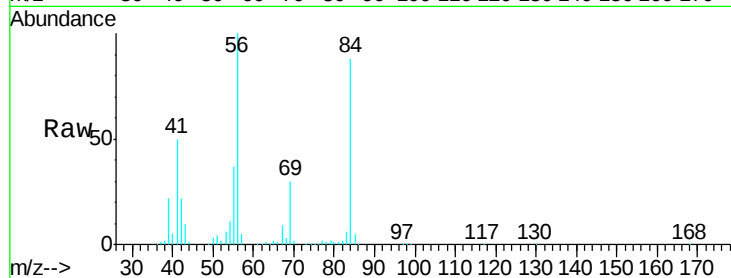




#29
Cyclohexane
Concen: 49.525 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU035597.D
Acq: 01 Nov 2019 13:48

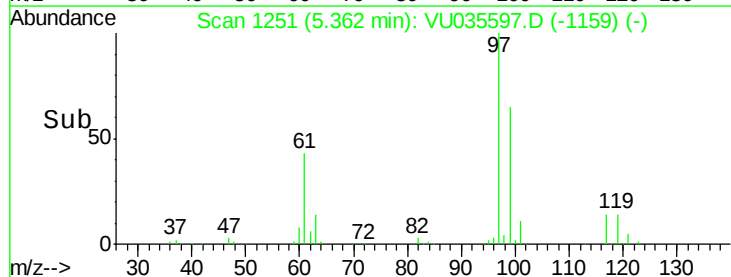
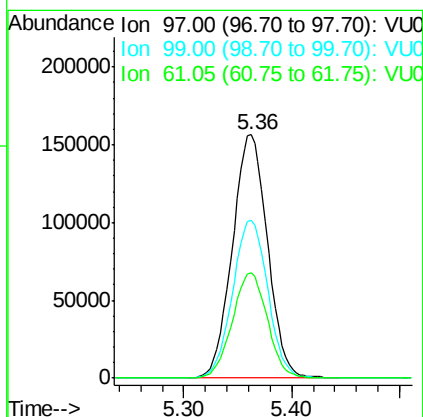
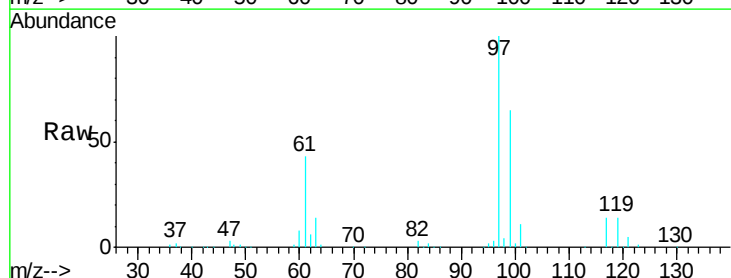
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

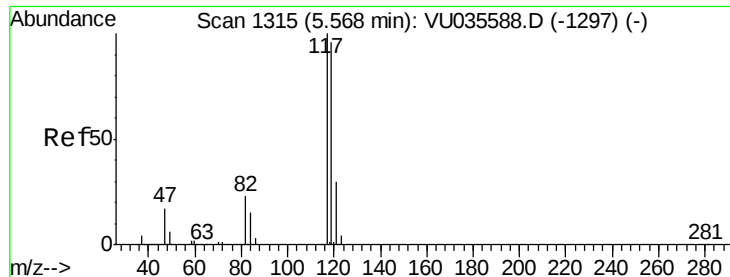
Tgt Ion: 56 Resp: 347419
Ion Ratio Lower Upper
56 100
69 30.6 24.4 36.6
84 88.1 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 49.150 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU035597.D
Acq: 01 Nov 2019 13:48

Tgt Ion: 97 Resp: 355283
Ion Ratio Lower Upper
97 100
99 65.0 51.5 77.3
61 43.1 35.1 52.7





#31

Carbon tetrachloride

Concen: 49.308 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

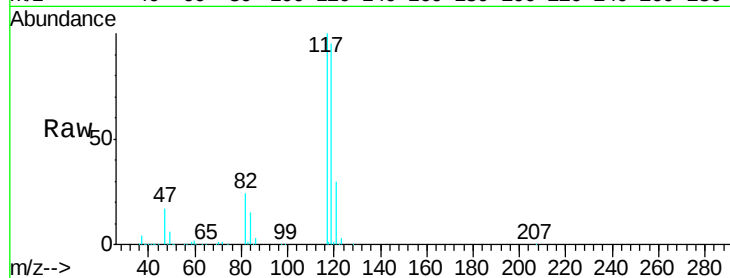
VSTD05034

Tgt Ion:117 Resp: 316924

Ion Ratio Lower Upper

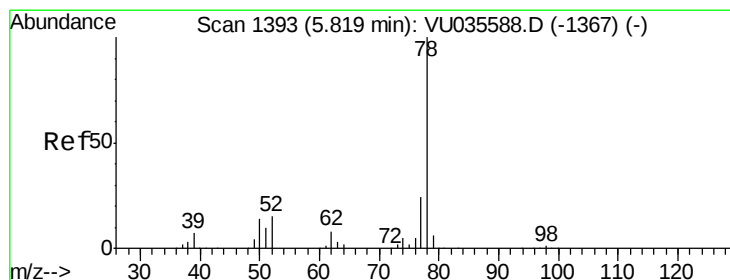
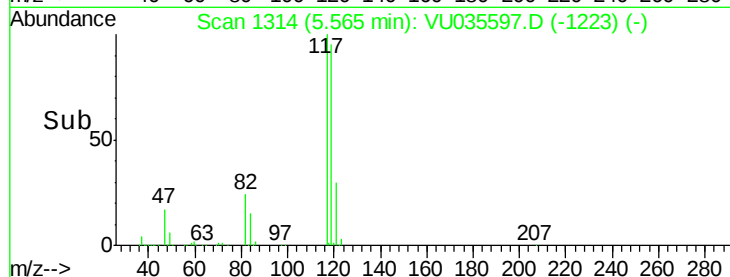
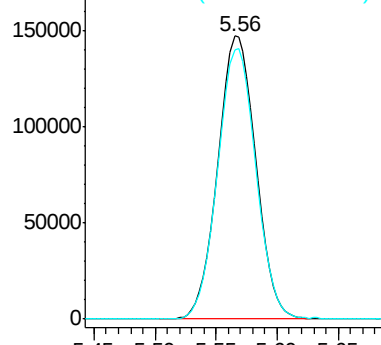
117 100

119 96.5 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.630 ug/L

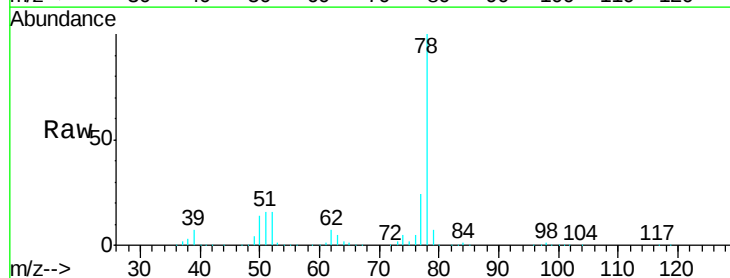
RT: 5.82 min Scan# 1392

Delta R.T. -0.01 min

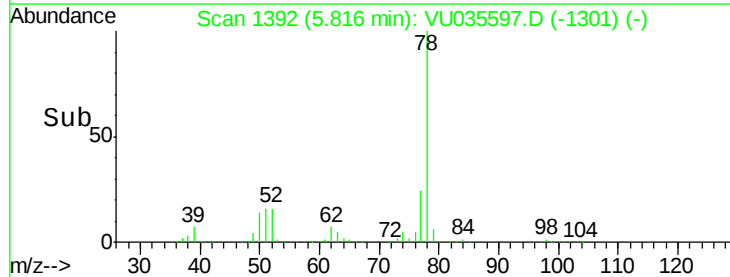
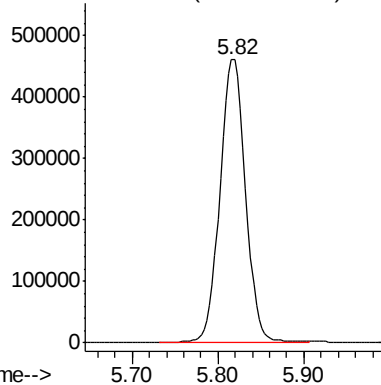
Lab File: VU035597.D

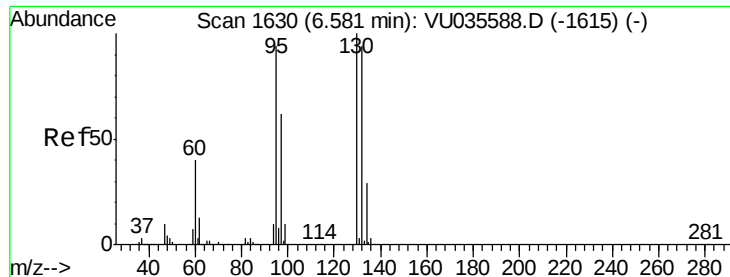
Acq: 01 Nov 2019 13:48

Tgt Ion: 78 Resp: 959286



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 48.780 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

Tgt Ion: 95 Resp: 239697

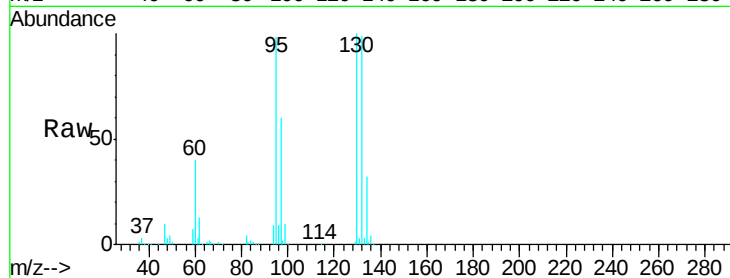
Ion Ratio Lower Upper

95 100

97 61.7 45.6 84.6

132 100.7 69.9 129.7

130 102.2 73.1 135.7

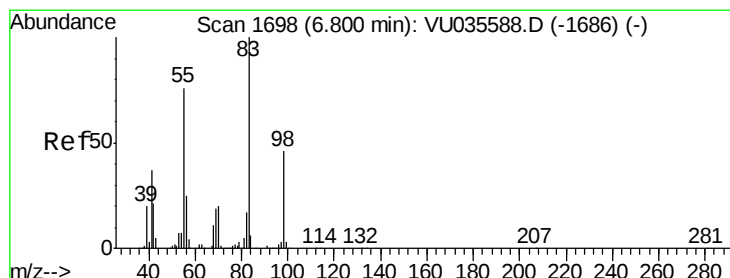
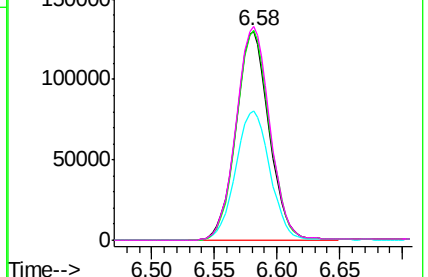
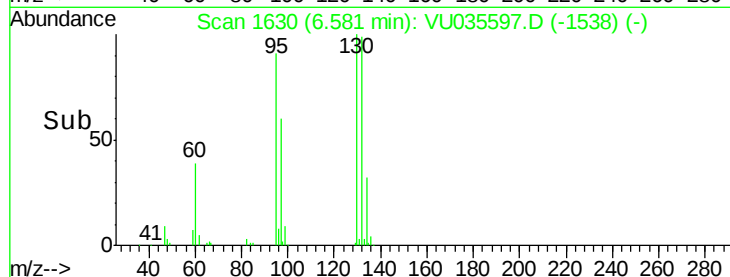


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 48.214 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

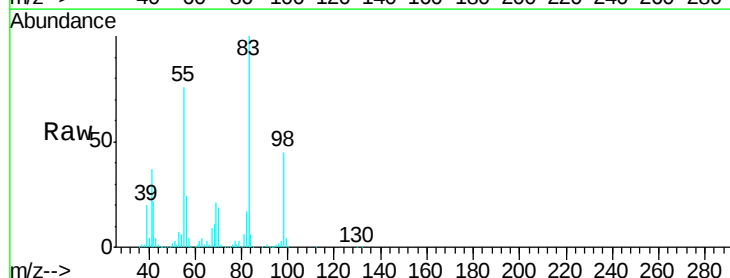
Tgt Ion: 83 Resp: 344087

Ion Ratio Lower Upper

83 100

55 76.2 61.0 91.4

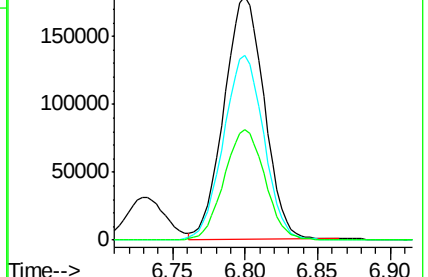
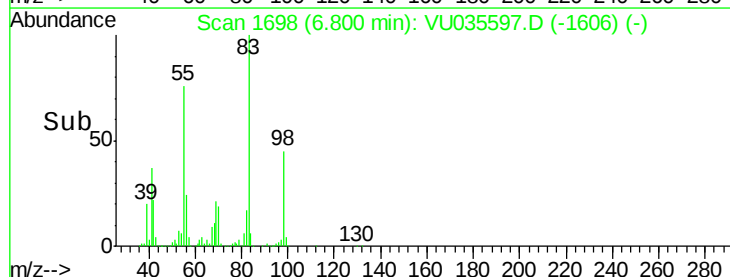
98 46.5 36.6 54.8

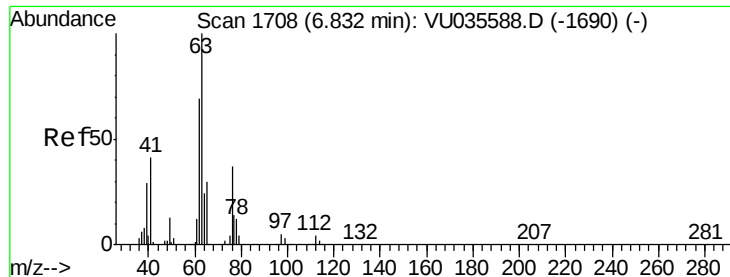


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

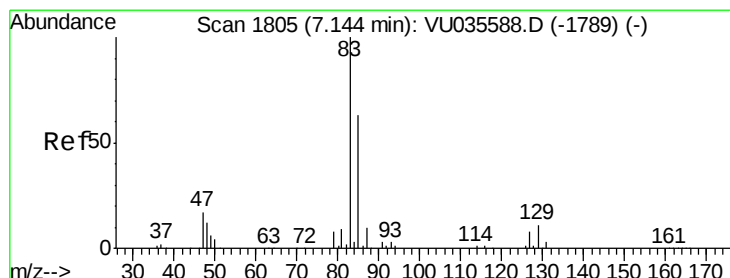
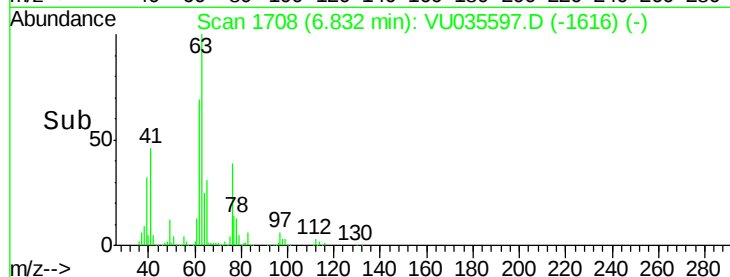
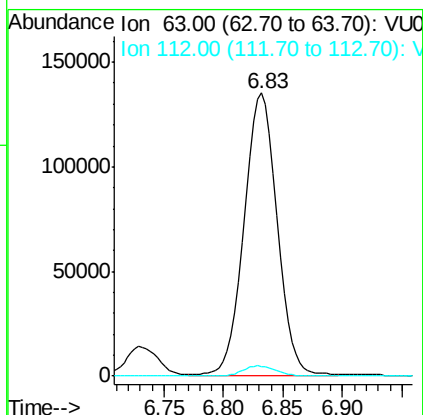
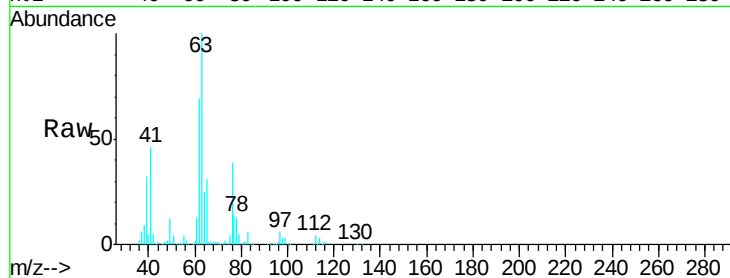




#37
 1,2-Dichloropropane
 Concen: 50.376 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

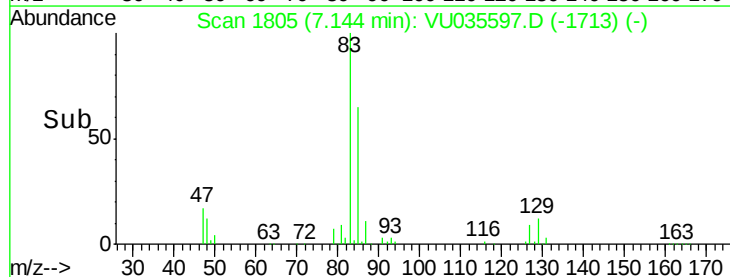
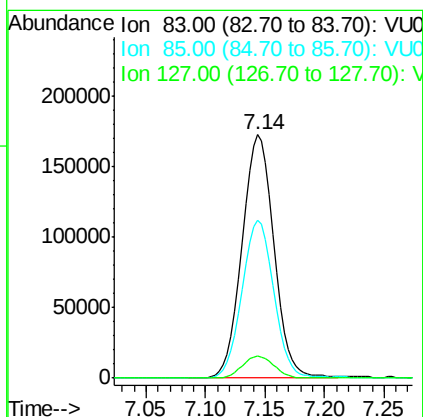
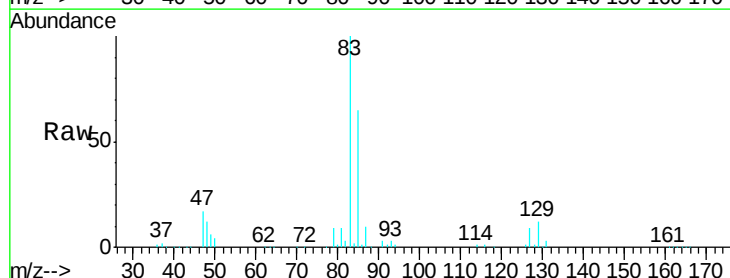
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

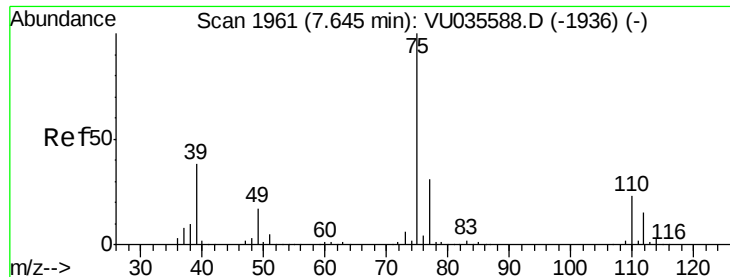
Tgt Ion: 63 Resp: 260752
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.2 4.8



#38
 Bromodichloromethane
 Concen: 48.707 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

Tgt Ion: 83 Resp: 320453
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.1 83.7
 127 8.9 7.2 10.8

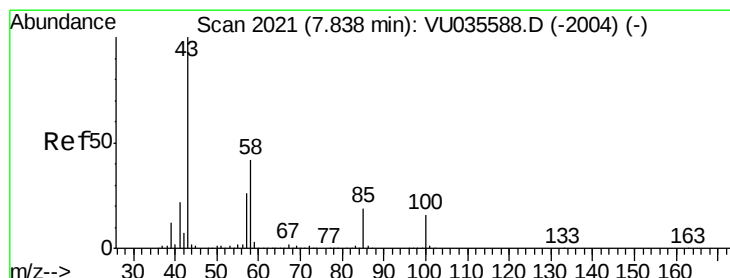
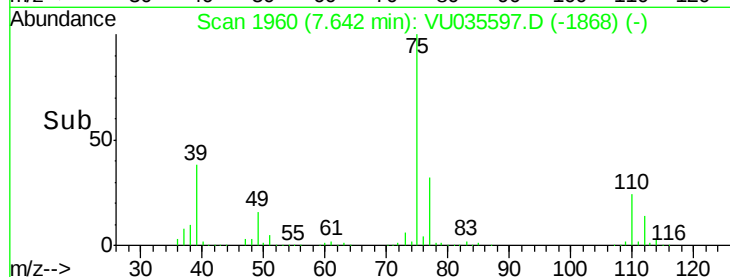
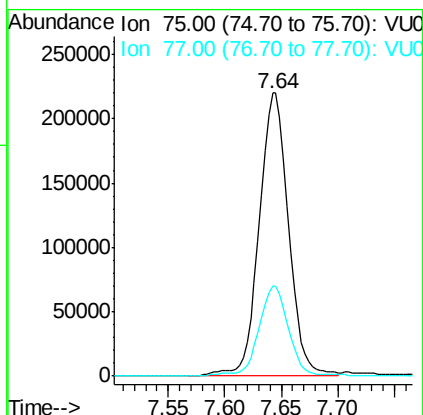
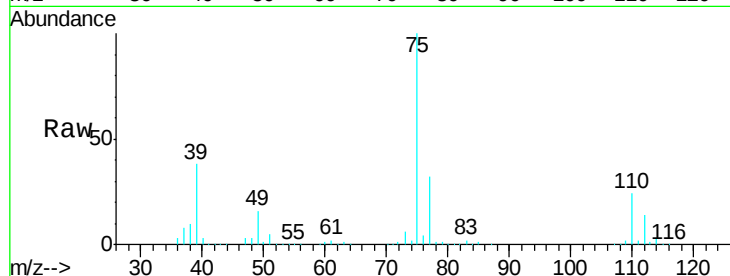




#39
 cis-1,3-Dichloropropene
 Concen: 51.676 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

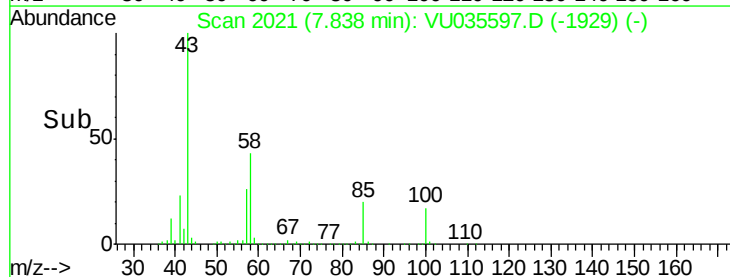
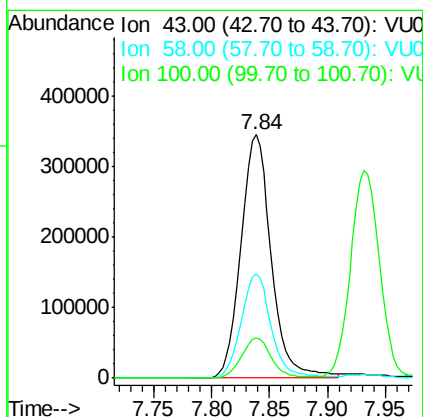
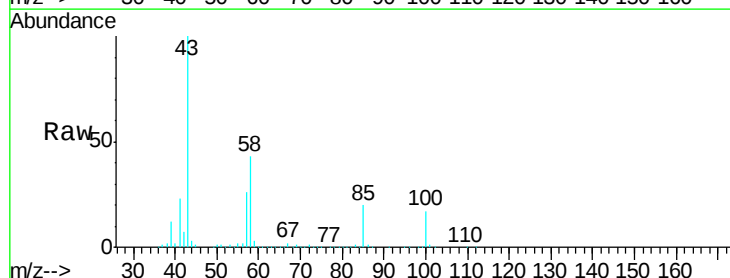
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

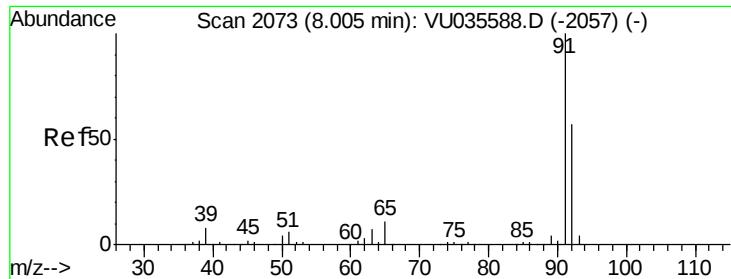
Tgt Ion: 75 Resp: 397578
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 91.111 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

Tgt Ion: 43 Resp: 630920
 Ion Ratio Lower Upper
 43 100
 58 42.2 32.6 49.0
 100 16.3 12.6 19.0





#42

Toluene

Concen: 51.864 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

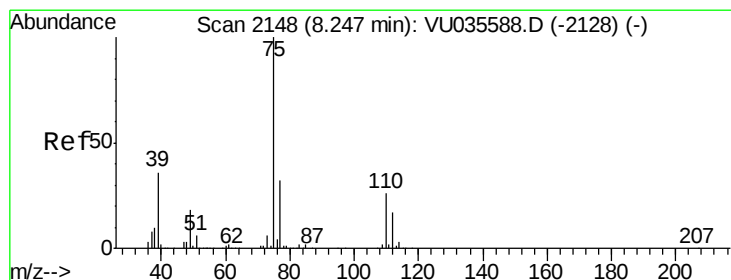
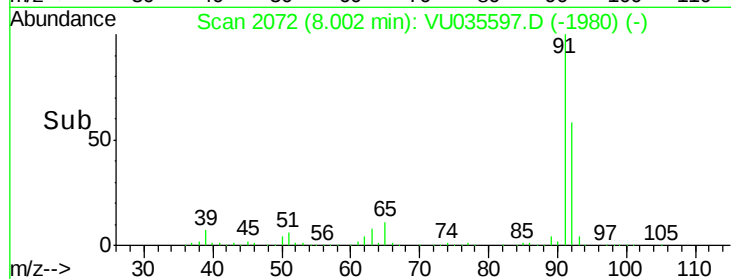
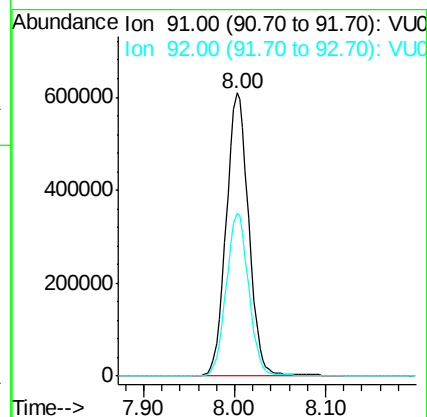
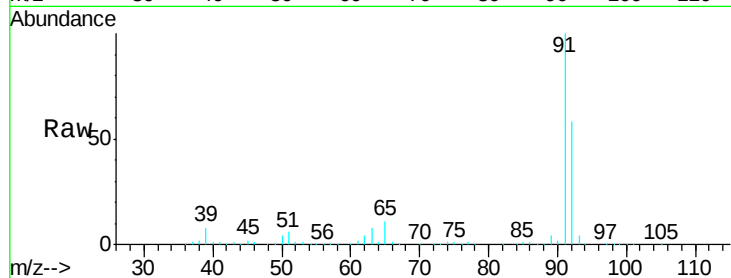
VSTD05034

Tgt Ion: 91 Resp: 1050674

Ion Ratio Lower Upper

91 100

92 57.7 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 50.101 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU035597.D

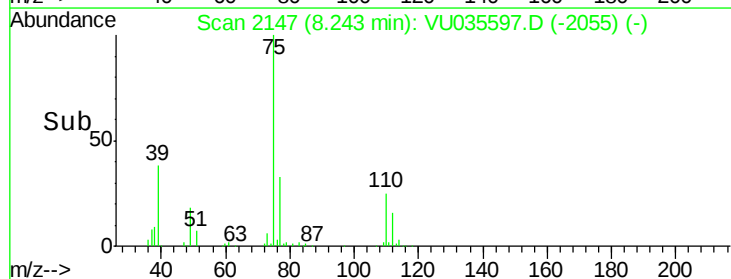
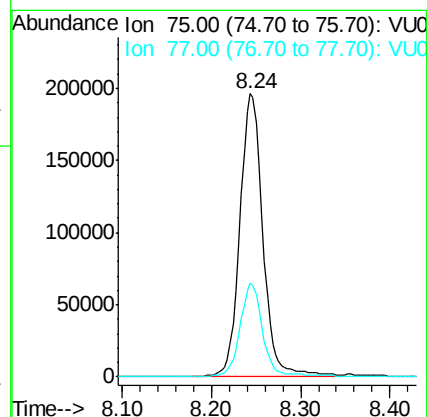
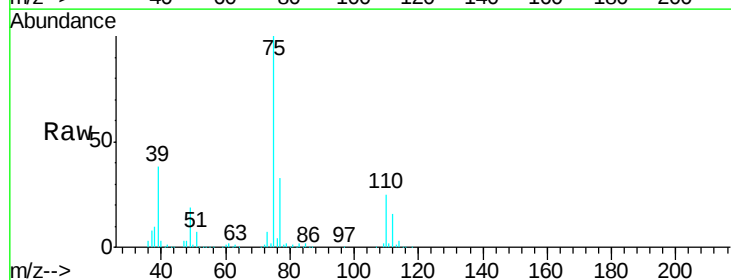
Acq: 01 Nov 2019 13:48

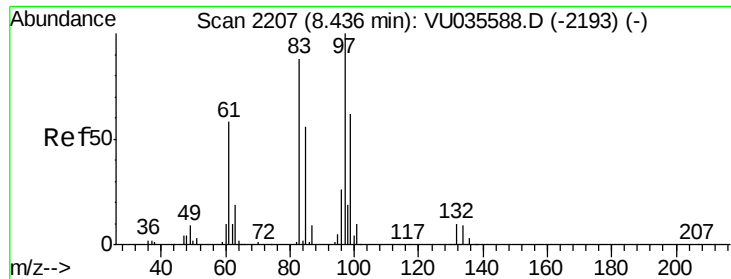
Tgt Ion: 75 Resp: 353330

Ion Ratio Lower Upper

75 100

77 33.1 22.1 41.1

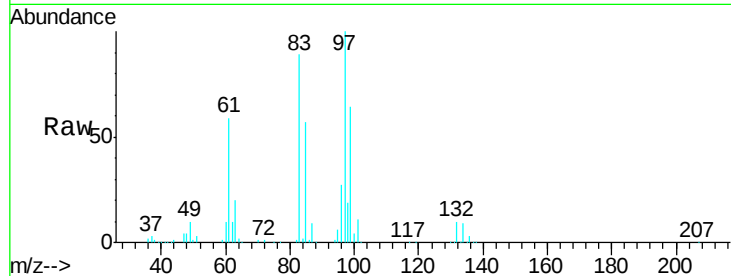




#45
 1,1,2-Trichloroethane
 Concen: 48.714 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion:	97	Resp:	241683
Ion	Ratio	Lower	Upper
97	100		
99	64.1	44.2	82.2
83	89.2	61.5	114.3
85	56.9	39.3	73.1



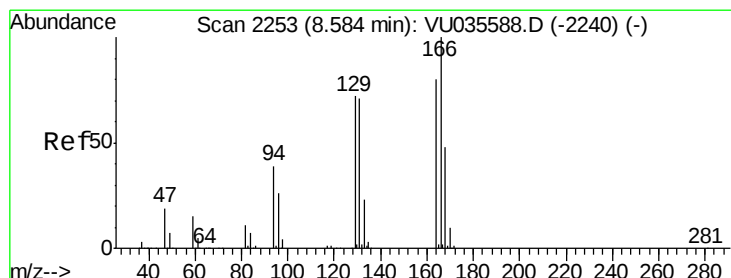
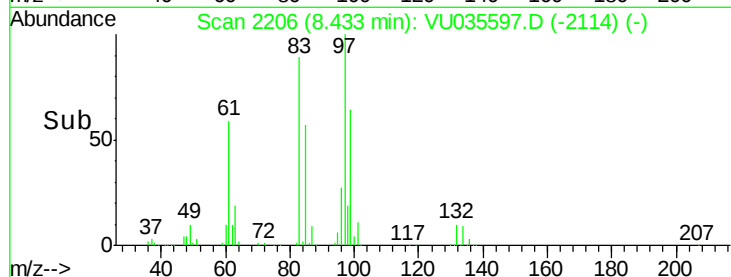
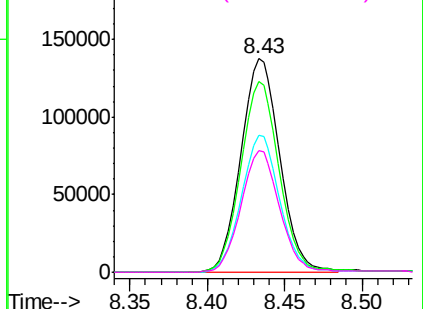
Abundance

Ion 97.00 (96.70 to 97.70): VU035588.D (-2193) (-)

Ion 99.00 (98.70 to 99.70): VU035588.D (-2193) (-)

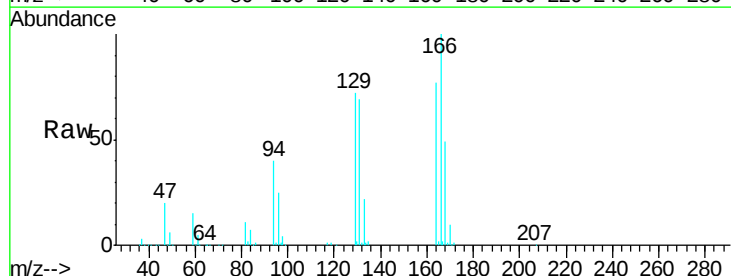
Ion 83.00 (82.70 to 83.70): VU035588.D (-2193) (-)

Ion 85.00 (84.70 to 85.70): VU035588.D (-2193) (-)



#46
 Tetrachloroethene
 Concen: 49.771 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

Tgt Ion:	164	Resp:	204500
Ion	Ratio	Lower	Upper
164	100		
129	94.1	64.1	119.1
131	89.9	63.1	117.1
166	130.0	88.5	164.3



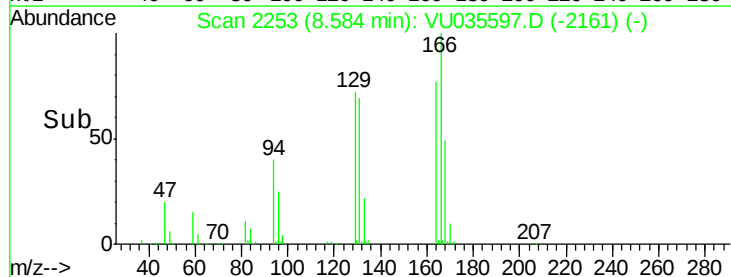
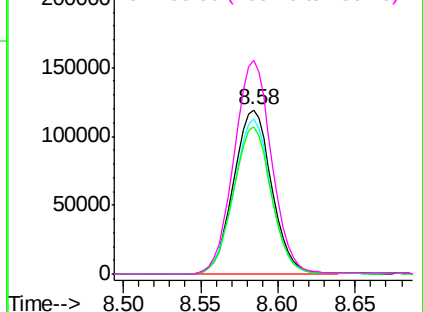
Abundance

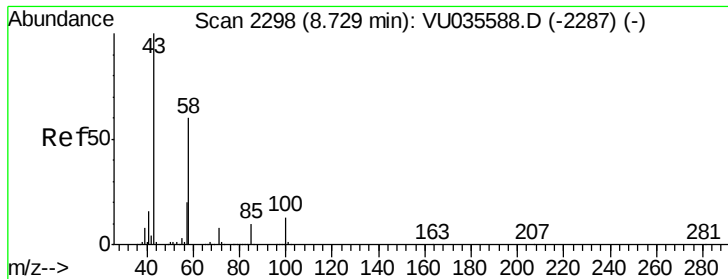
Ion 164.00 (163.70 to 164.70): VU035588.D (-2240) (-)

Ion 129.00 (128.70 to 129.70): VU035588.D (-2240) (-)

Ion 131.00 (130.70 to 131.70): VU035588.D (-2240) (-)

Ion 166.00 (165.70 to 166.70): VU035588.D (-2240) (-)

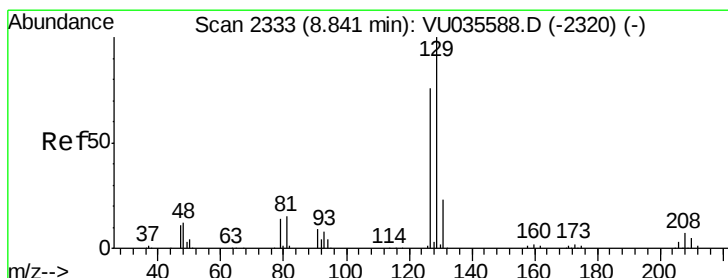
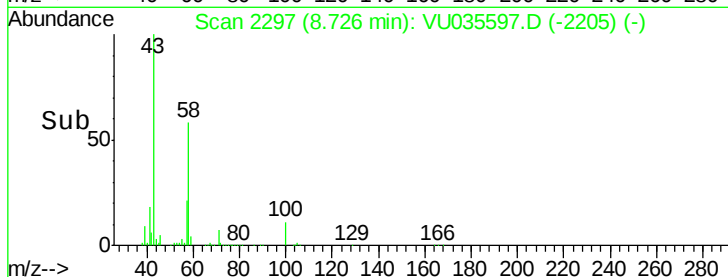
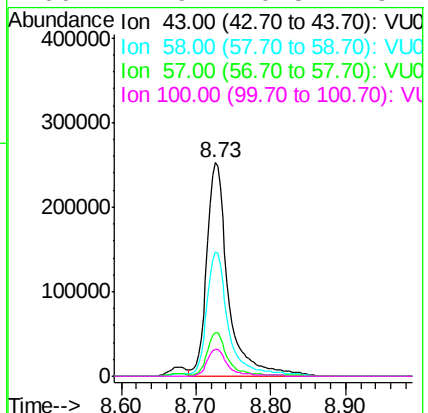
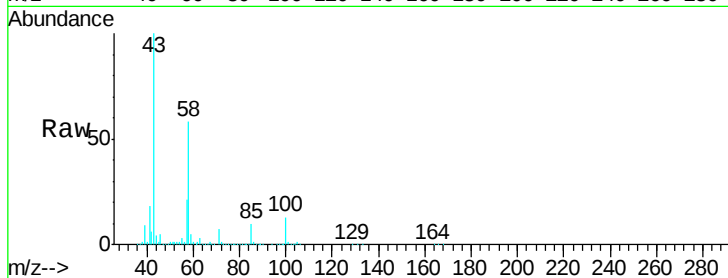




#48
2-Hexanone
Concen: 89.868 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU035597.D
Acq: 01 Nov 2019 13:48

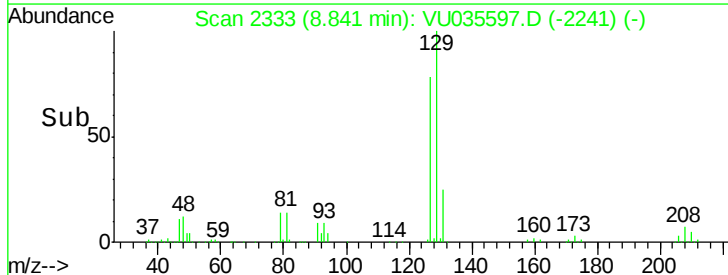
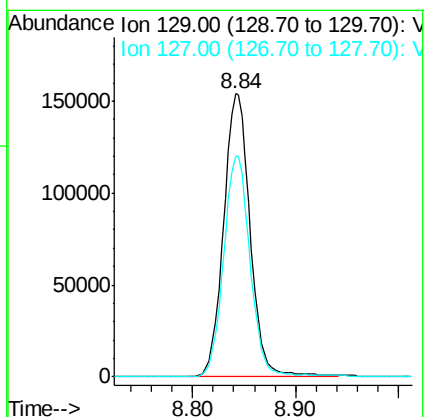
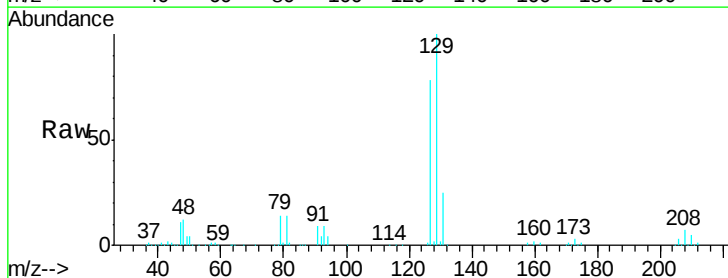
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

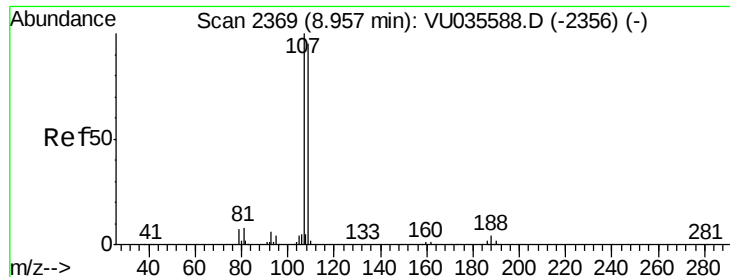
Tgt Ion:	43	Resp:	506067
Ion	Ratio	Lower	Upper
43	100		
58	59.0	50.4	75.6
57	18.8	17.4	26.0
100	11.9	10.5	15.7



#49
Dibromochloromethane
Concen: 49.334 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU035597.D
Acq: 01 Nov 2019 13:48

Tgt Ion:	129	Resp:	276021
Ion	Ratio	Lower	Upper
129	100		
127	78.1	54.9	101.9

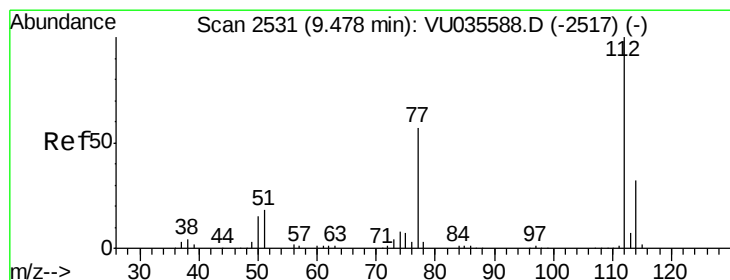
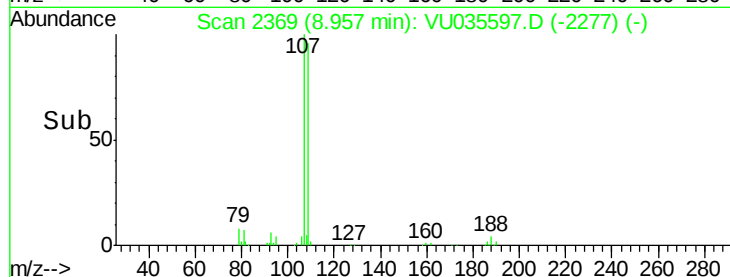
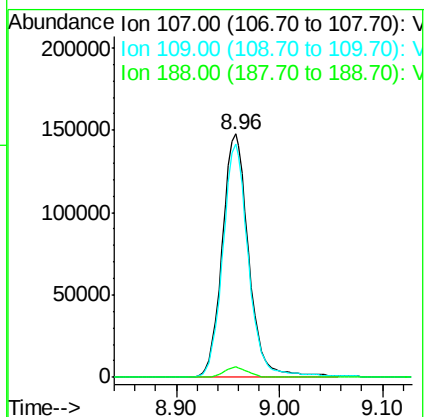
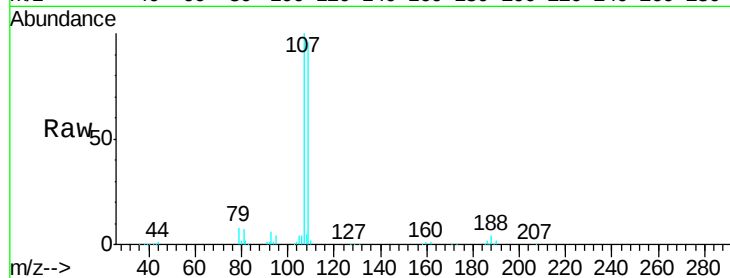




#50
1,2-Dibromoethane
Concen: 49.994 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VU035597.D
Acq: 01 Nov 2019 13:48

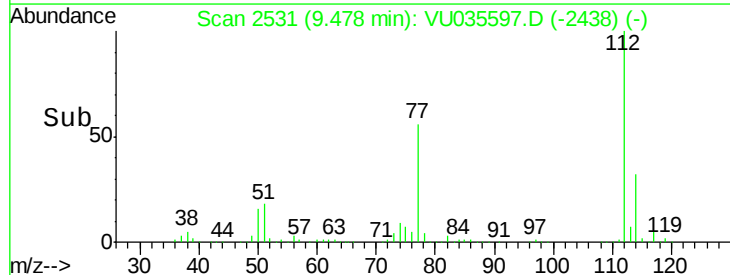
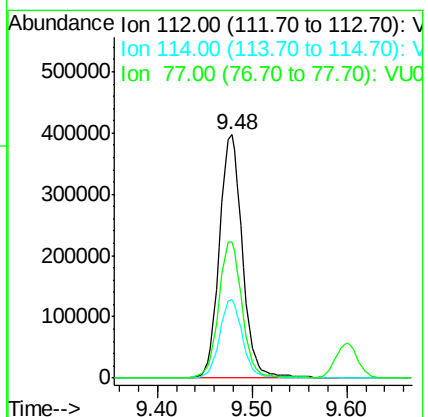
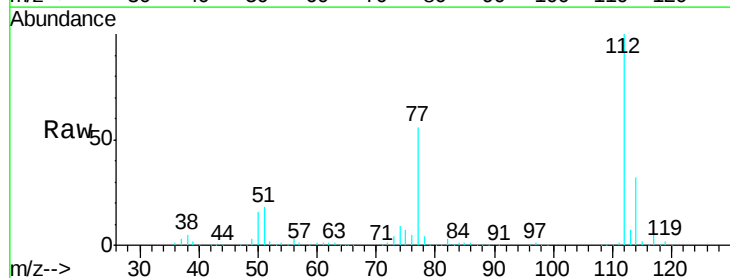
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

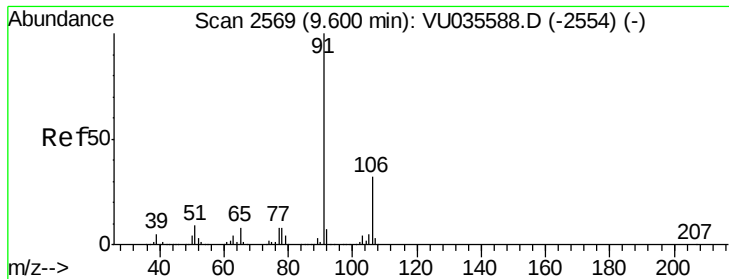
Tgt Ion:107 Resp: 264636
Ion Ratio Lower Upper
107 100
109 95.9 66.8 124.2
188 4.3 3.2 4.8



#51
Chlorobenzene
Concen: 49.725 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU035597.D
Acq: 01 Nov 2019 13:48

Tgt Ion:112 Resp: 672482
Ion Ratio Lower Upper
112 100
114 32.3 22.7 42.3
77 56.1 45.9 68.9





#52

Ethylbenzene

Concen: 50.734 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

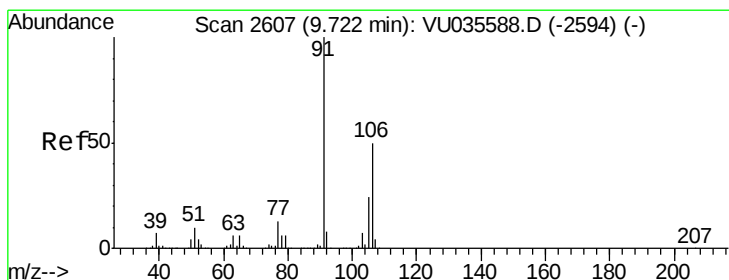
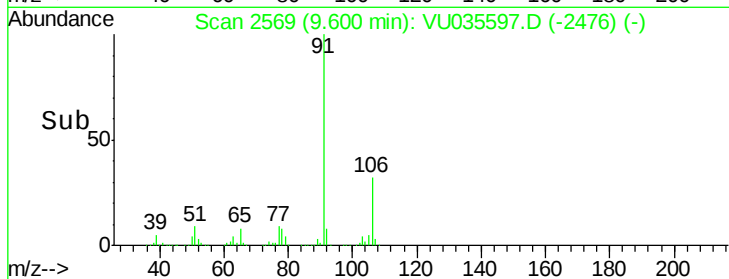
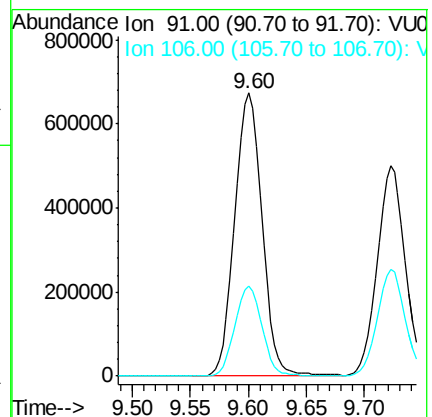
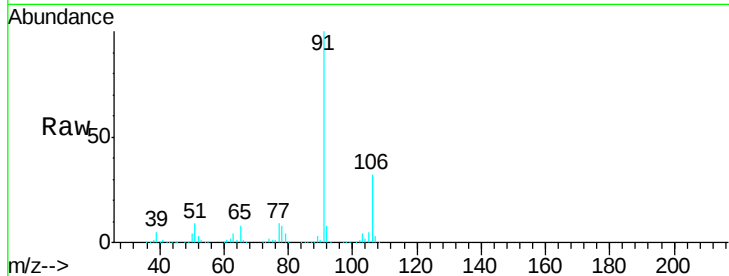
VSTD05034

Tgt Ion: 91 Resp: 1098754

Ion Ratio Lower Upper

91 100

106 31.9 21.6 40.0



#53

m,p-Xylene

Concen: 53.268 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035597.D

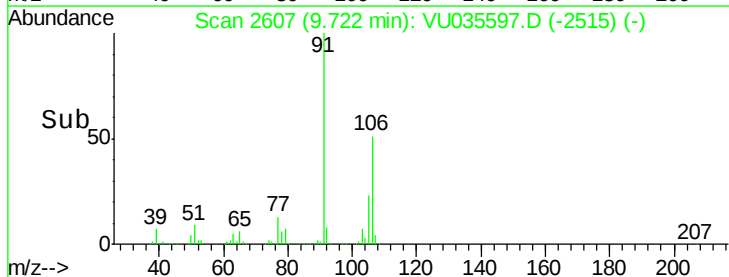
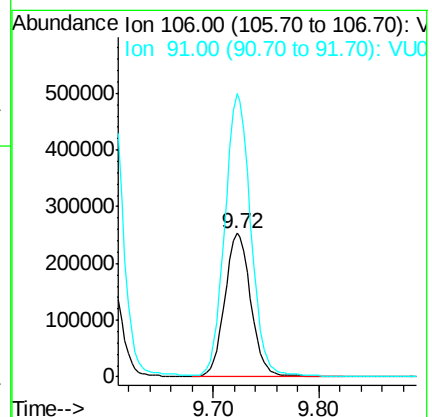
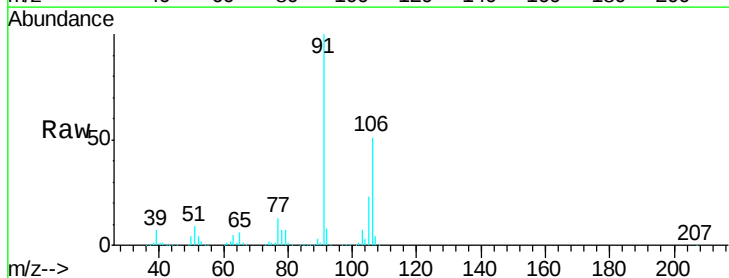
Acq: 01 Nov 2019 13:48

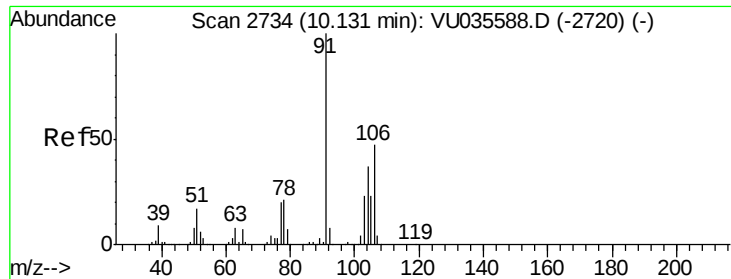
Tgt Ion: 106 Resp: 432887

Ion Ratio Lower Upper

106 100

91 197.1 142.7 264.9





#54

o-xylene

Concen: 52.169 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

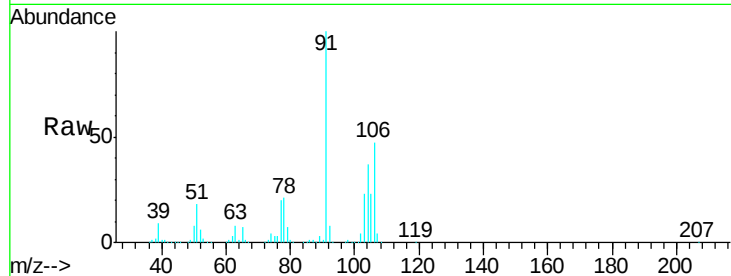
VSTD05034

Tgt Ion:106 Resp: 414367

Ion Ratio Lower Upper

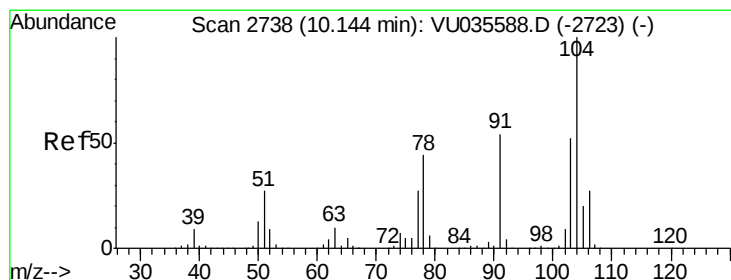
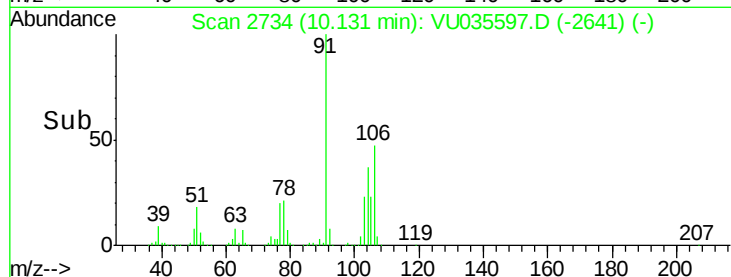
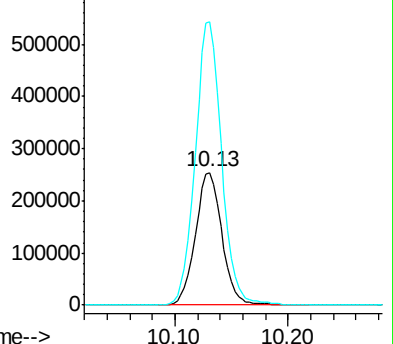
106 100

91 213.7 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.866 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. -0.00 min

Lab File: VU035597.D

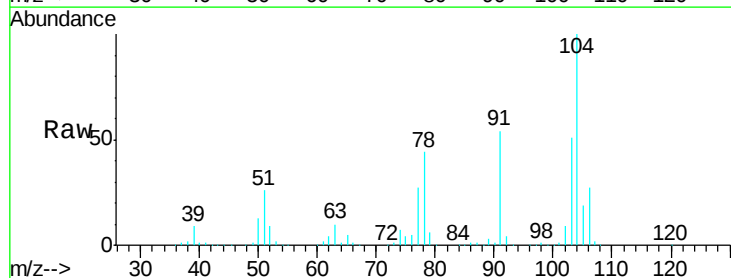
Acq: 01 Nov 2019 13:48

Tgt Ion:104 Resp: 696862

Ion Ratio Lower Upper

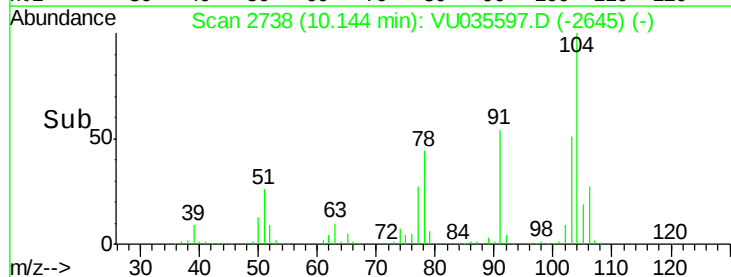
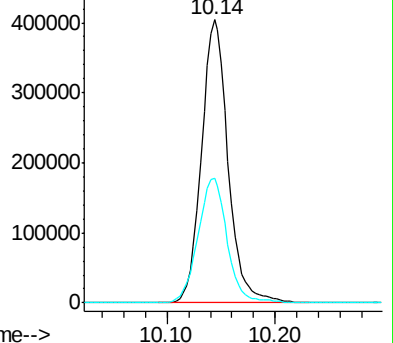
104 100

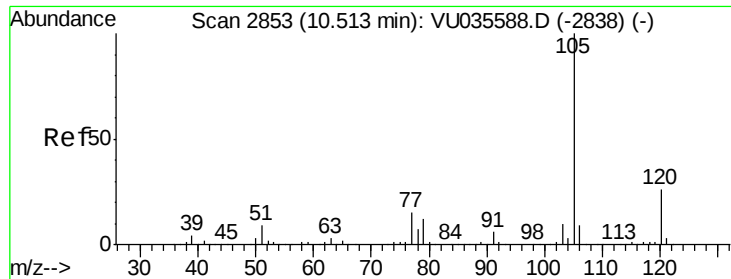
78 43.8 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.442 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampled :

VSTD05034

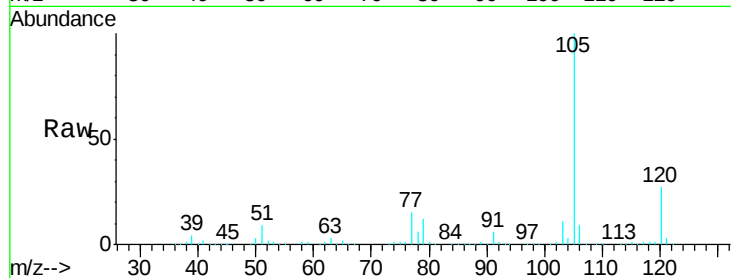
Tgt Ion: 105 Resp: 1046726

Ion Ratio Lower Upper

105 100

120 26.9 21.1 31.7

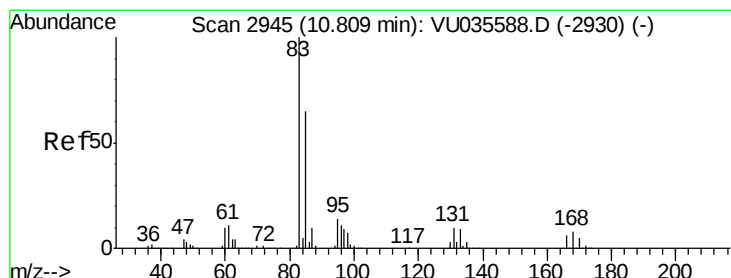
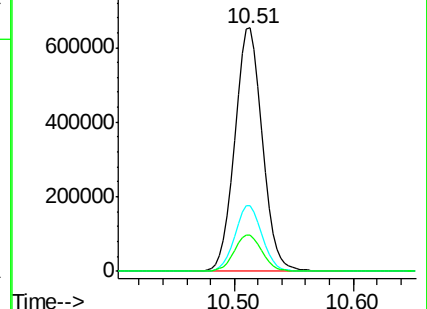
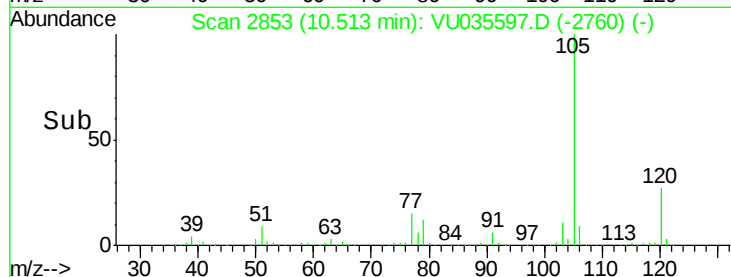
77 15.2 12.2 18.4



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: 48.329 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

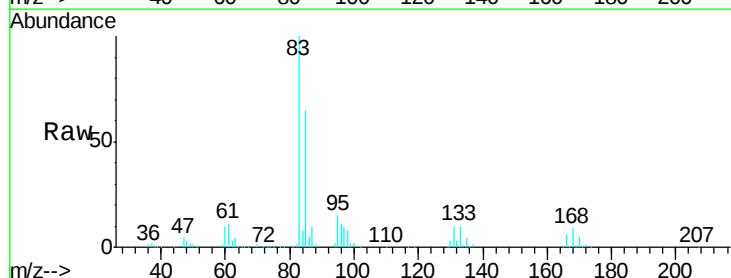
Tgt Ion: 83 Resp: 413001

Ion Ratio Lower Upper

83 100

85 64.5 44.6 82.8

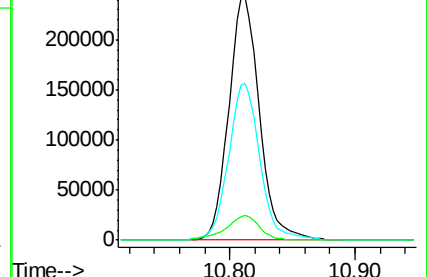
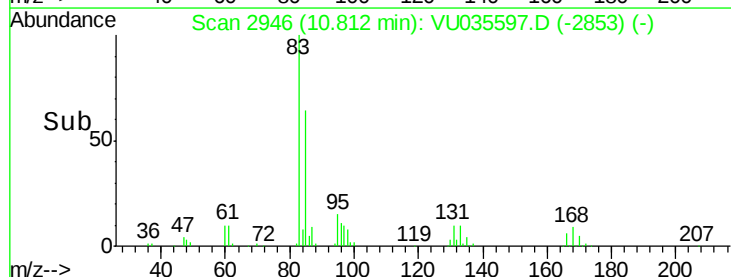
131 10.1 8.2 12.4

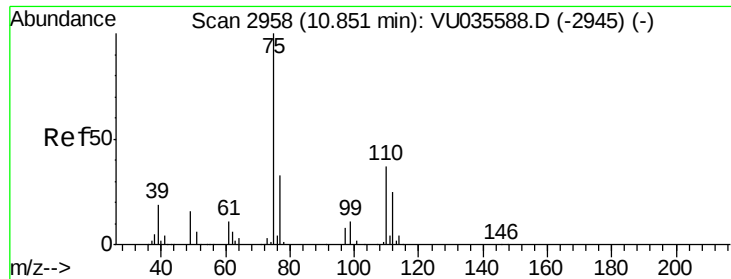


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.075 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

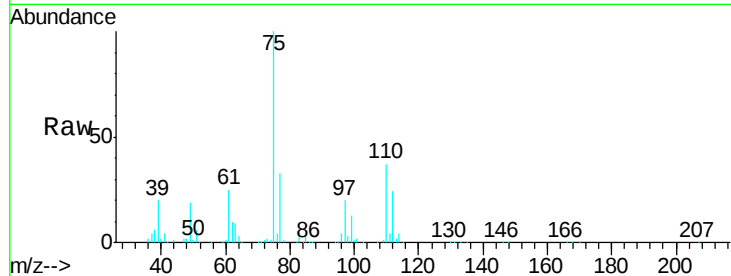
VSTD05034

Tgt Ion: 75 Resp: 317717

Ion Ratio Lower Upper

75 100

77 32.6 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU035588.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU035588.D (-2945) (-)

10.85

200000

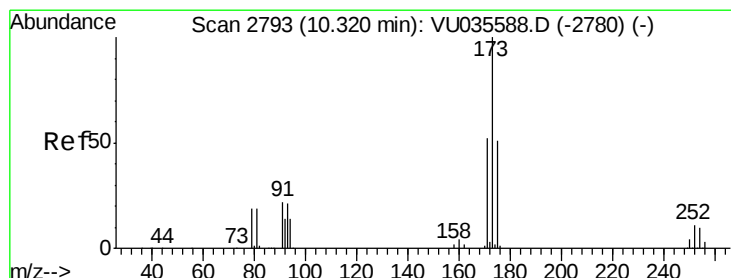
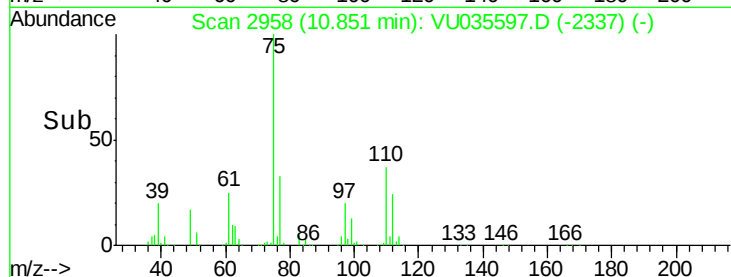
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 44.398 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

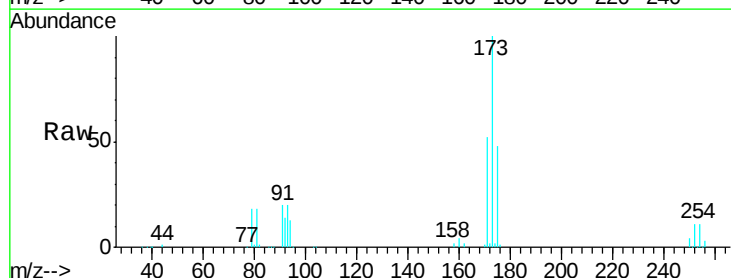
Tgt Ion: 173 Resp: 214638

Ion Ratio Lower Upper

173 100

175 48.5 39.4 59.0

254 10.4 8.1 12.1



Abundance Ion 173.00 (172.70 to 173.70): VU035588.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU035588.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU035588.D (-2780) (-)

10.32

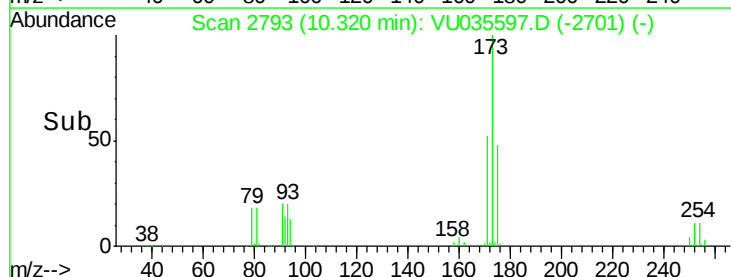
150000

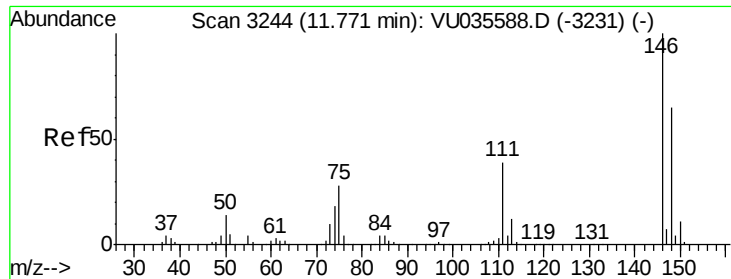
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 47.350 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

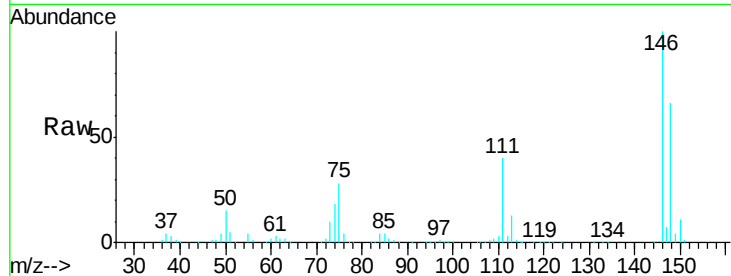
Tgt Ion:146 Resp: 473340

Ion Ratio Lower Upper

146 100

111 39.8 27.8 51.6

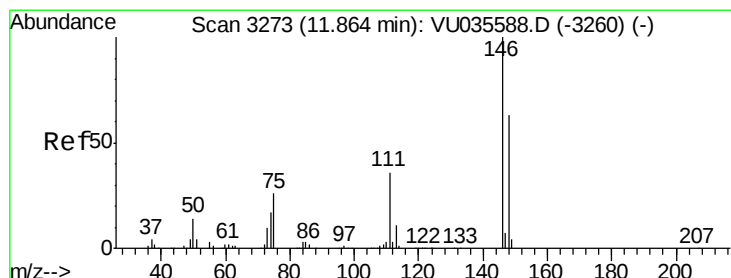
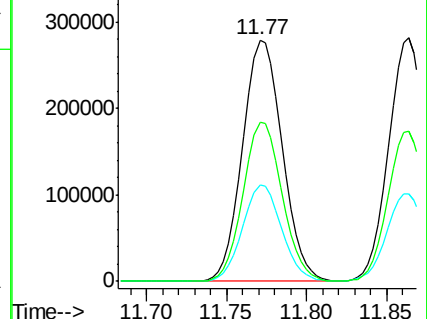
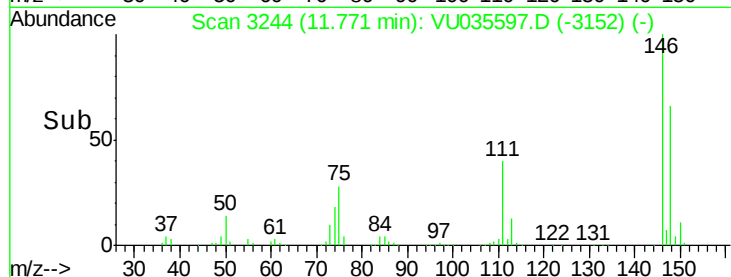
148 65.7 44.5 82.7



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: 46.499 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

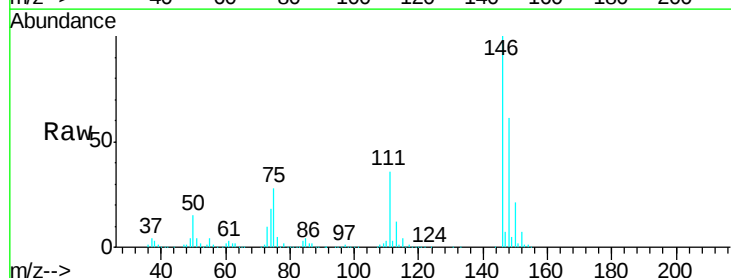
Tgt Ion:146 Resp: 472216

Ion Ratio Lower Upper

146 100

111 36.1 26.5 49.1

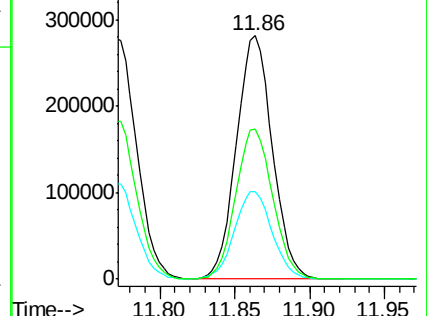
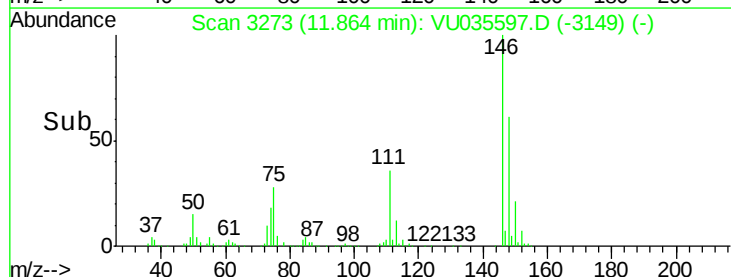
148 61.5 44.4 82.5

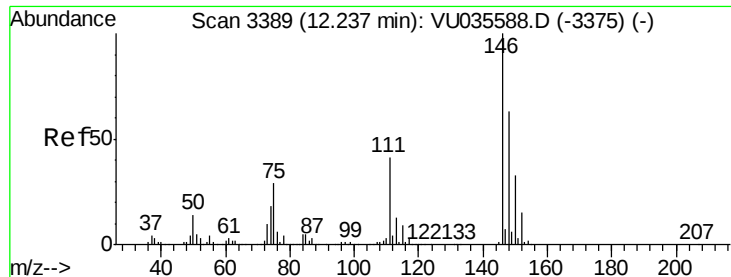


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

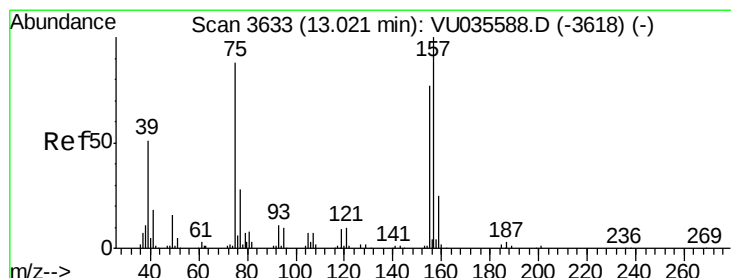
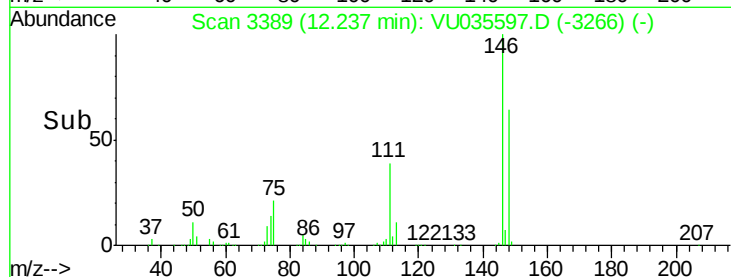
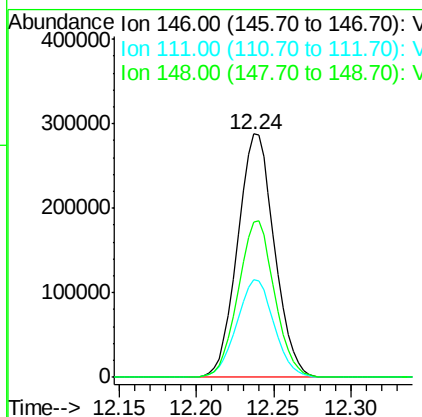
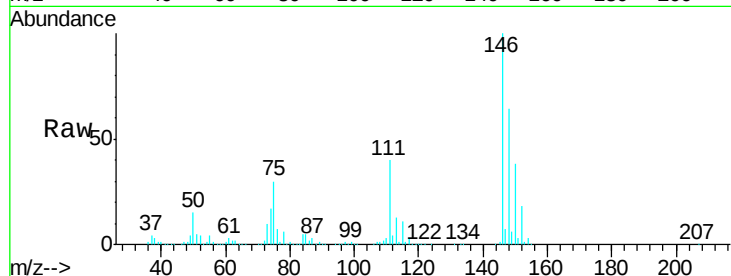




#65
 1,2-Dichlorobenzene
 Concen: 46.761 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

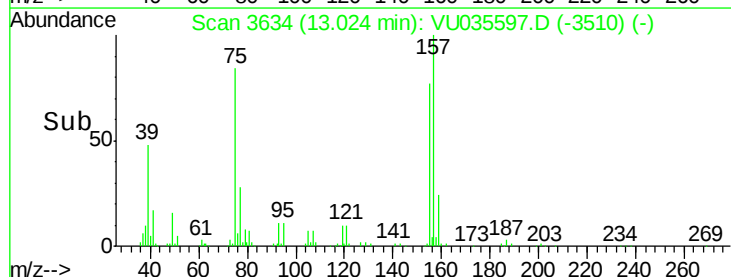
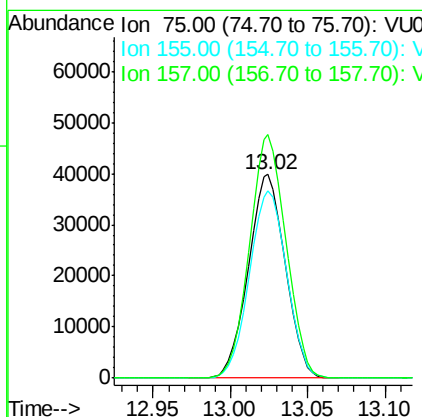
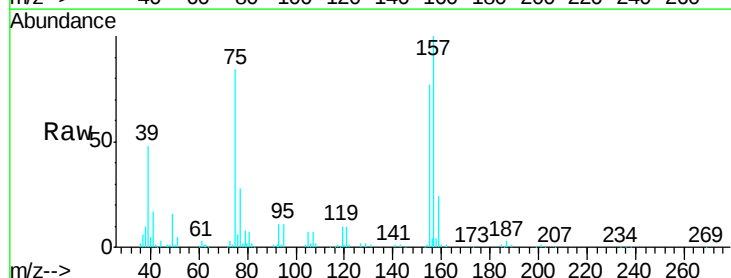
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

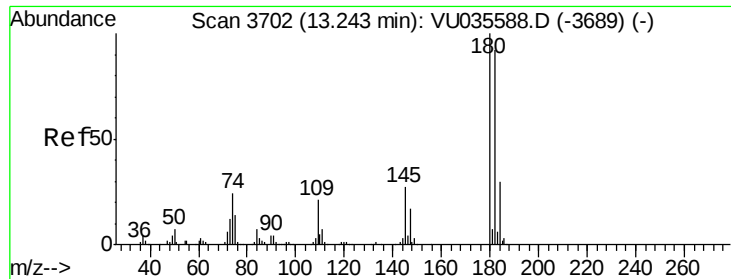
Tgt Ion: 146 Resp: 475895
 Ion Ratio Lower Upper
 146 100
 111 40.0 32.4 48.6
 148 63.9 51.8 77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 41.892 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

Tgt Ion: 75 Resp: 66103
 Ion Ratio Lower Upper
 75 100
 155 92.0 72.2 108.4
 157 119.4 92.1 138.1

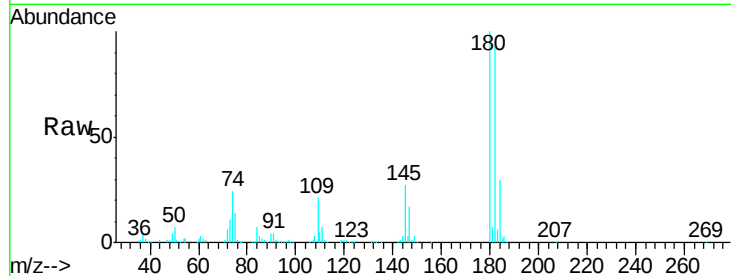




#67
 1,3,5-Trichlorobenzene
 Concen: 44.277 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	77.0	115.4
184	30.5	24.6	36.8
145	27.0	21.7	32.5

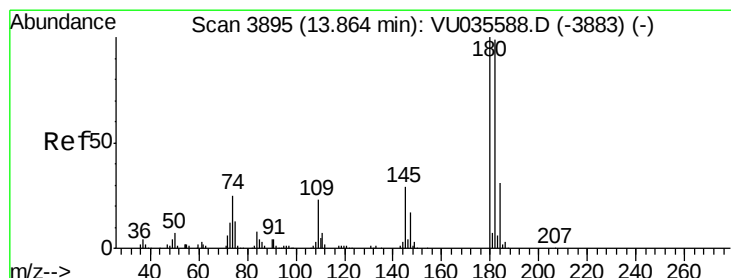
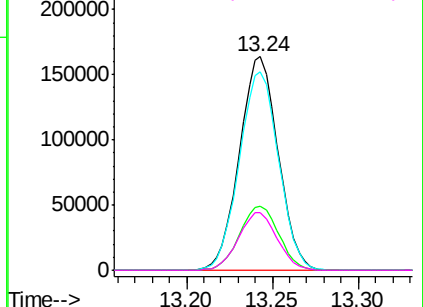
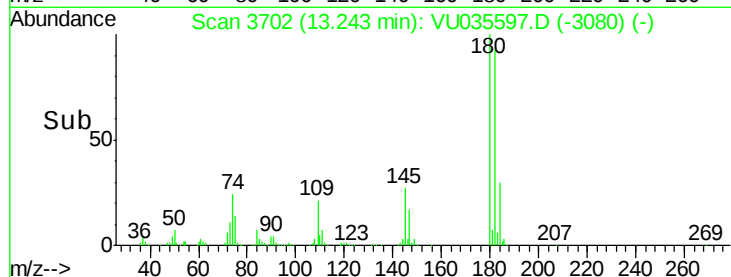


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

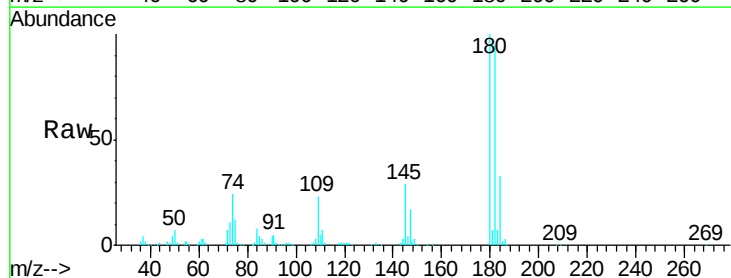
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 36.890 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035597.D
 Acq: 01 Nov 2019 13:48

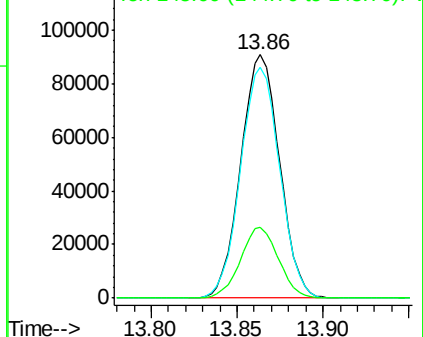
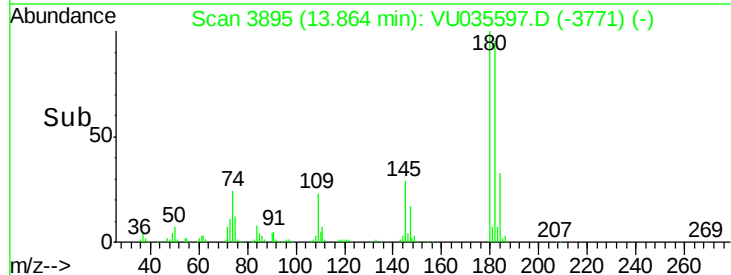
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.6	115.0
145	28.3	21.9	32.9

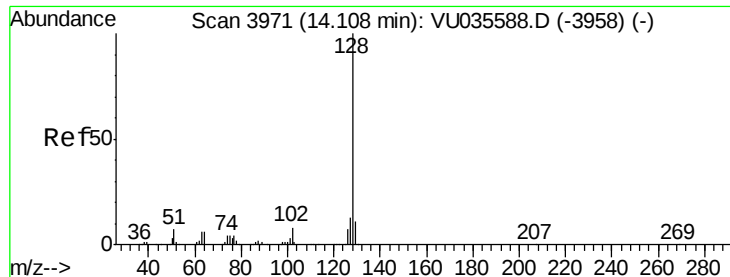


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 32.150 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

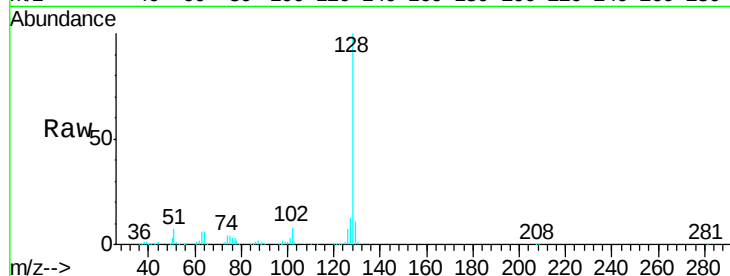
Tgt Ion:128 Resp: 319029

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

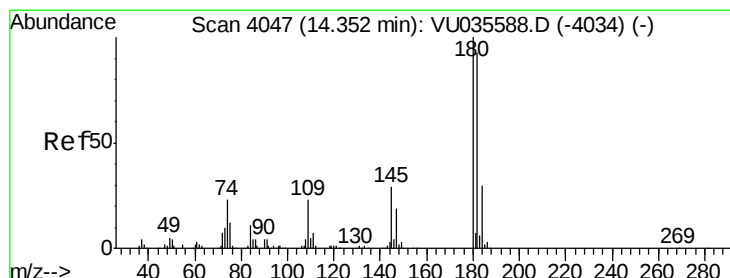
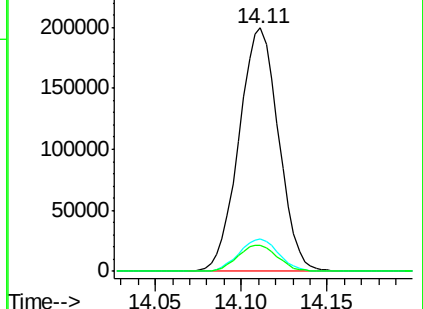
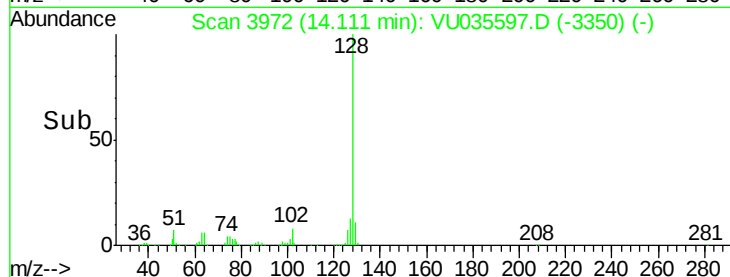
129 10.8 8.5 12.7



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: 36.404 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035597.D

Acq: 01 Nov 2019 13:48

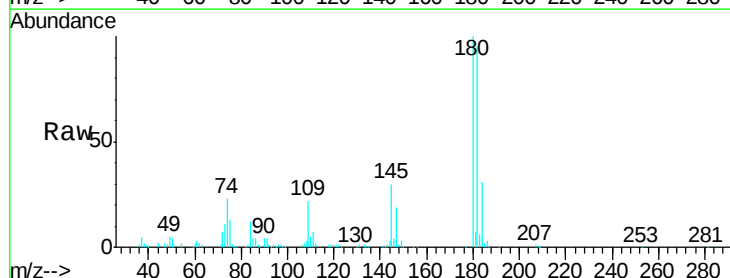
Tgt Ion:180 Resp: 151748

Ion Ratio Lower Upper

180 100

182 94.4 77.6 116.4

145 29.3 23.4 35.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

