

Data File : VU036667.D
Acq On : 01 Feb 2020 02:50
Operator : JC/MD
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Quant Time: Feb 01 05:40:15 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM013120WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Feb 01 00:19:17 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	287180	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	268590	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	119832	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	131295	50.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.30%
7) Chloroethane-d5	1.92	69	105857	50.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.42%
11) 1,1-Dichloroethene-d2	2.59	63	207558	50.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.30%
21) 2-Butanone-d5	4.68	46	157578	97.76	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.76%
24) Chloroform-d	5.11	84	193986	50.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.00%
26) 1,2-Dichloroethane-d4	5.75	65	127357	50.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.24%
32) Benzene-d6	5.77	84	412245	50.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.38%
36) 1,2-Dichloropropane-d6	6.73	67	135482	50.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.40%
41) Toluene-d8	7.93	98	377734	50.35	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.70%
43) trans-1,3-Dichloropropene-	8.21	79	62090	47.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.52%
47) 2-Hexanone-d5	8.67	63	153135	102.80	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.80%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	189208	49.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.62%
64) 1,2-Dichlorobenzene-d4	12.21	152	126031	49.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	116544	51.500	ug/L 100
3) Chloromethane	1.54	50	138991	50.239	ug/L 99
5) Vinyl chloride	1.62	62	147290	51.789	ug/L 97
6) Bromomethane	1.85	94	77600	54.566	ug/L 99
8) Chloroethane	1.94	64	87736	51.794	ug/L 100
9) Trichlorofluoromethane	2.15	101	160503	51.586	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	91201	50.902	ug/L 99
12) 1,1-Dichloroethene	2.60	96	93079	51.071	ug/L 94
13) Acetone	2.66	43	128263	93.573	ug/L 99
14) Carbon disulfide	2.82	76	281457	50.599	ug/L 100
15) Methyl Acetate	2.98	43	127661	51.151	ug/L 99
16) Methylene chloride	3.08	84	115771	50.543	ug/L 99
17) trans-1,2-Dichloroethene	3.39	96	99517	51.385	ug/L 98
18) Methyl tert-butyl Ether	3.41	73	355445	51.835	ug/L 99
19) 1,1-Dichloroethane	3.91	63	201030	51.874	ug/L 98
20) cis-1,2-Dichloroethene	4.71	96	115412	51.613	ug/L 99
22) 2-Butanone	4.75	43	191742	102.310	ug/L 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	52265	50.947	ug/L	97
25) Chloroform	5.13	83	193924	52.158	ug/L	99
27) 1,2-Dichloroethane	5.84	62	157932	51.960	ug/L	100
29) Cyclohexane	5.43	56	189075	52.138	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	157431	52.603	ug/L	99
31) Carbon tetrachloride	5.56	117	128298	52.837	ug/L	98
33) Benzene	5.82	78	449701	52.541	ug/L	100
34) Trichloroethene	6.58	95	109535	52.618	ug/L	97
35) Methylcyclohexane	6.80	83	185233	51.927	ug/L	99
37) 1,2-Dichloropropane	6.83	63	122853	52.951	ug/L	100
38) Bromodichloromethane	7.14	83	144862	51.926	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	188955	51.454	ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	363534	103.749	ug/L	100
42) Toluene	8.00	91	478183	52.063	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	164837	50.843	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	107593	51.388	ug/L	99
46) Tetrachloroethene	8.58	164	75226	49.099	ug/L	99
48) 2-Hexanone	8.72	43	287127	105.780	ug/L	99
49) Dibromochloromethane	8.84	129	107026	51.940	ug/L	94
50) 1,2-Dibromoethane	8.95	107	113540	51.454	ug/L	99
51) Chlorobenzene	9.47	112	283126	51.799	ug/L	99
52) Ethylbenzene	9.60	91	526691	52.310	ug/L	100
53) m,p-Xylene	9.72	106	194724	52.436	ug/L	99
54) o-xylene	10.13	106	194224	51.919	ug/L	100
55) Styrene	10.14	104	329656	51.842	ug/L	99
56) Isopropylbenzene	10.51	105	501579	51.973	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	194124	51.408	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	157483	51.139	ug/L	99
61) Bromoform	10.32	173	77126	51.770	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	204241	51.524	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	201772	51.209	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	210336	52.745	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	44530	53.699	ug/L	97
67) 1,3,5-Trichlorobenzene	13.23	180	139594	52.311	ug/L	100
68) 1,2,4-trichlorobenzene	13.85	180	117406	52.910	ug/L	99
69) Naphthalene	14.10	128	449779	52.819	ug/L	100
70) 1,2,3-Trichlorobenzene	14.34	180	121175	52.768	ug/L	99

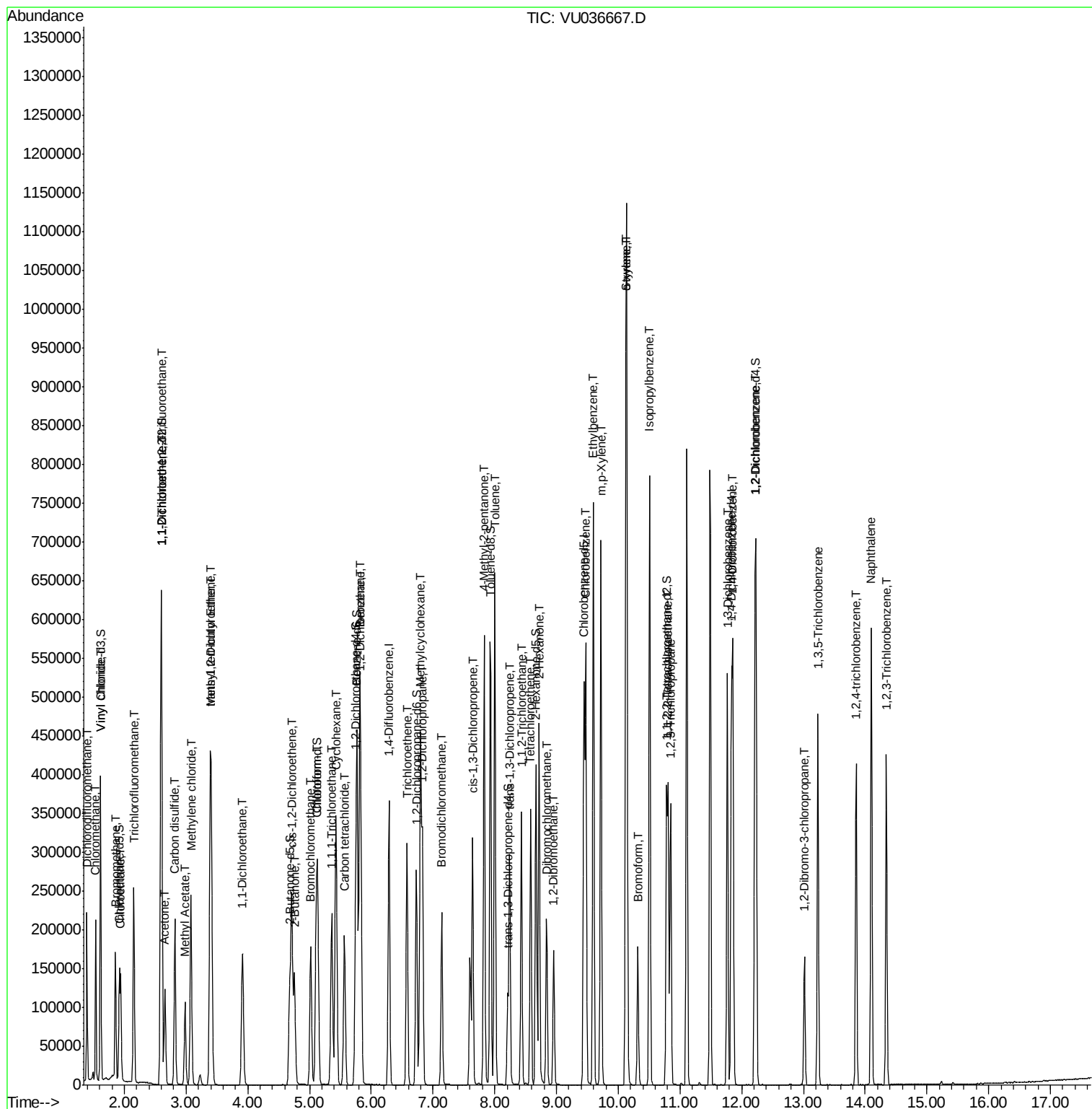
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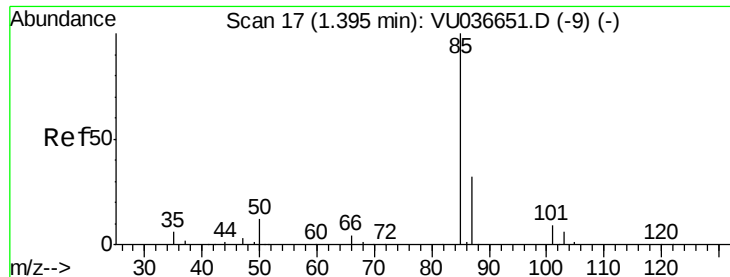
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#2

Dichlorodifluoromethane

Concen: 51.500 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

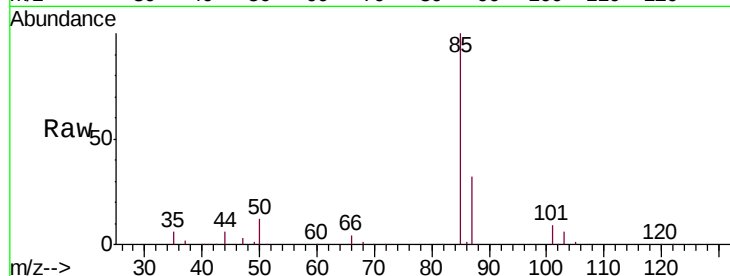
VSTD05052

Tgt Ion: 85 Resp: 116544

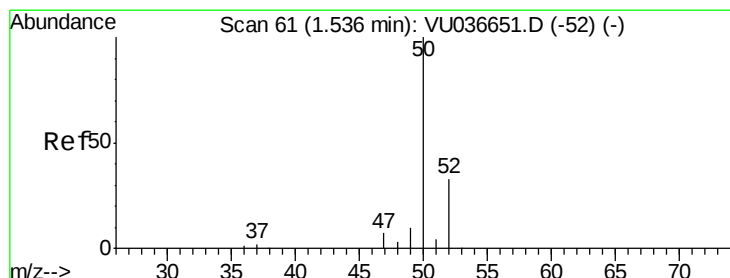
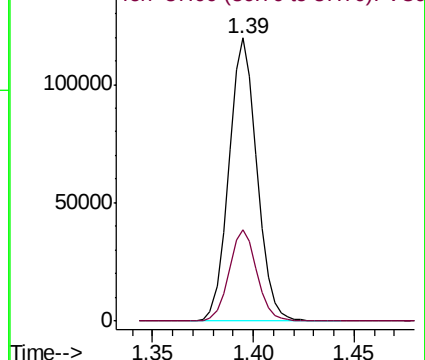
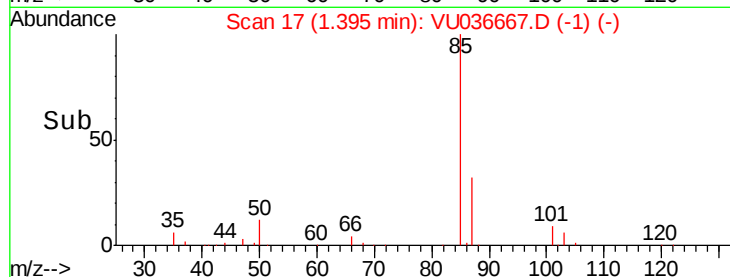
Ion Ratio Lower Upper

85 100

87 31.8 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU036667.D (-1) (-)



#3

Chloromethane

Concen: 50.239 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036667.D

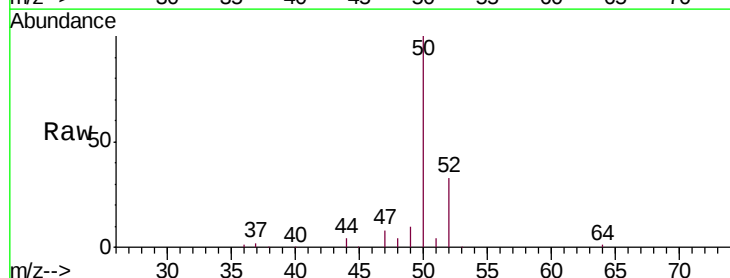
Acq: 01 Feb 2020 02:50

Tgt Ion: 50 Resp: 138991

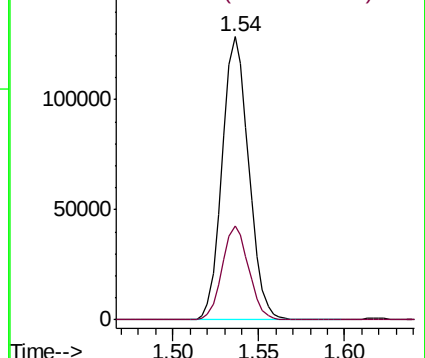
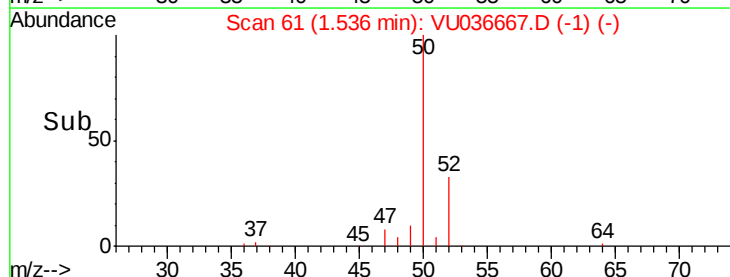
Ion Ratio Lower Upper

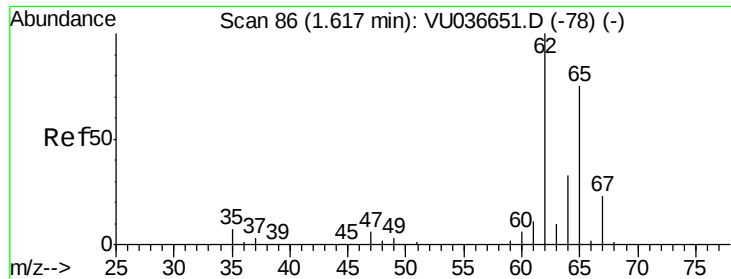
50 100

52 33.0 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VU036667.D (-1) (-)





#5

Vinyl chloride

Concen: 51.789 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

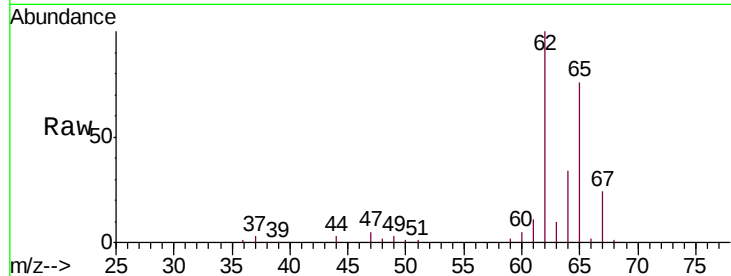
VSTD05052

Tgt Ion: 62 Resp: 147290

Ion Ratio Lower Upper

62 100

64 33.7 24.7 45.9



Abundance Ion 62.00 (61.70 to 62.70): VU036667.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VU036667.D (-65) (-)

1.62

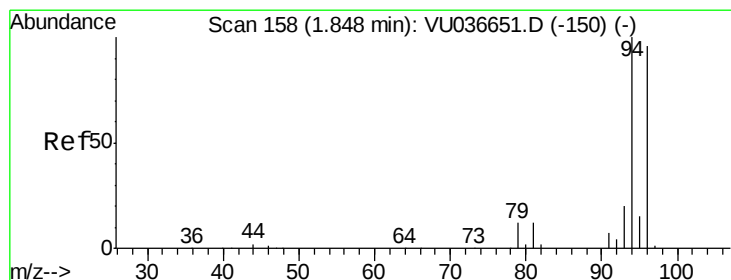
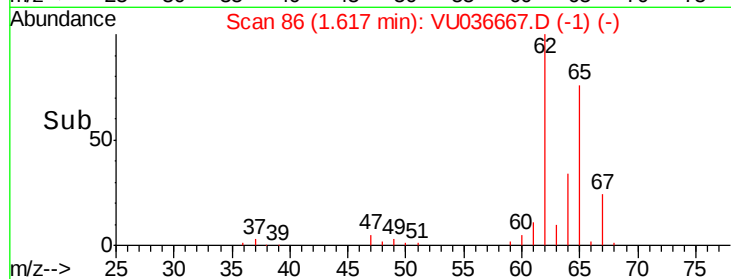
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 54.566 ug/L

RT: 1.85 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU036667.D

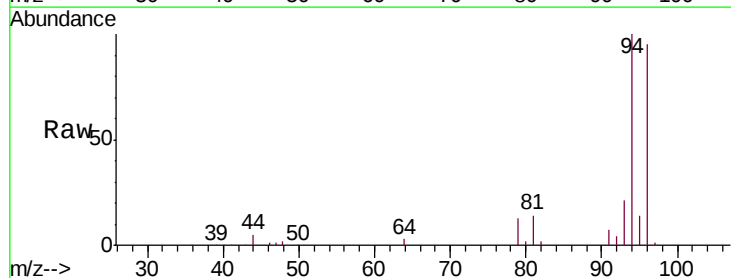
Acq: 01 Feb 2020 02:50

Tgt Ion: 94 Resp: 77600

Ion Ratio Lower Upper

94 100

96 95.3 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VU036667.D (-65) (-)

Ion 96.00 (95.70 to 96.70): VU036667.D (-65) (-)

1.85

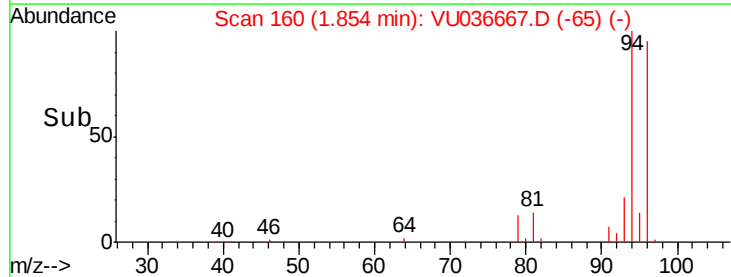
60000

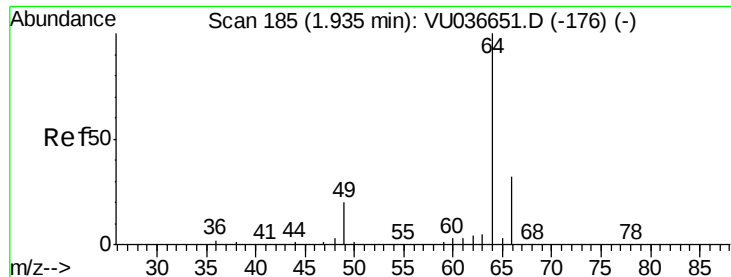
40000

20000

0

Time-->

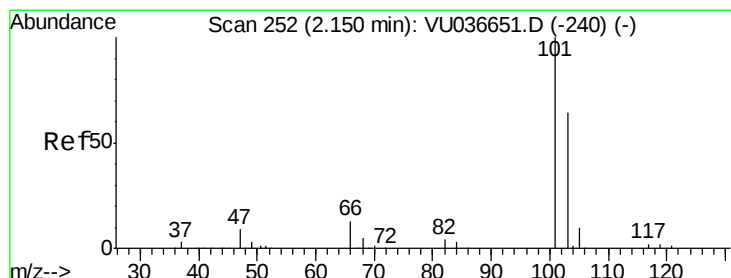
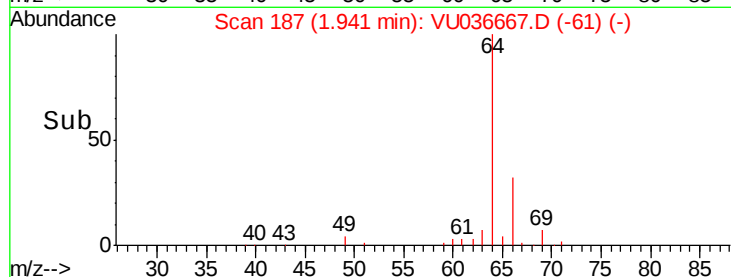
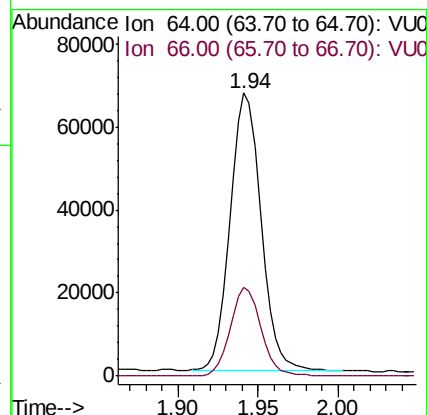
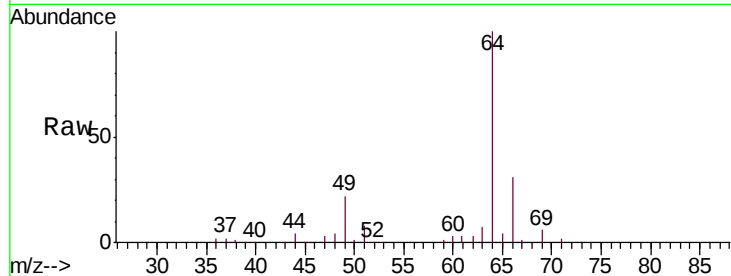




#8
Chloroethane
Concen: 51.794 ug/L
RT: 1.94 min Scan# 187
Delta R.T. 0.01 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

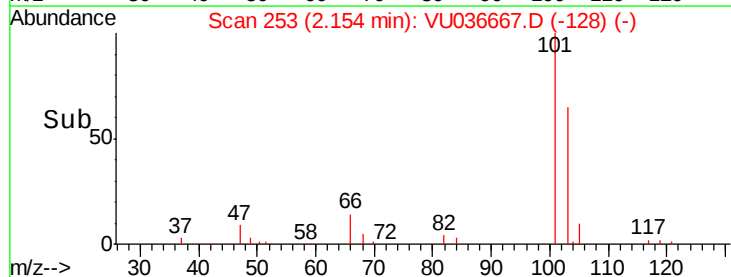
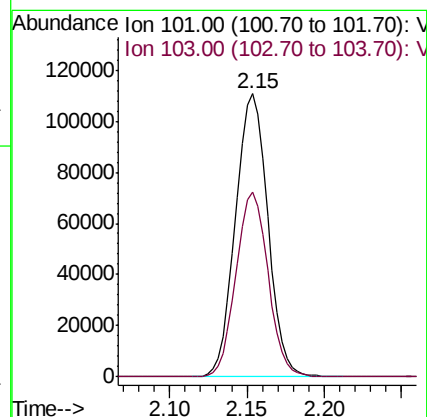
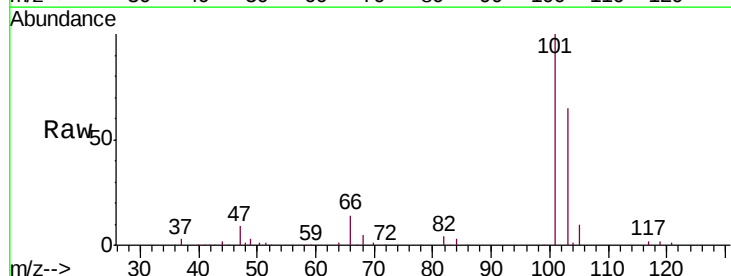
Instrument :
MSVOA_U
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VSTD05052

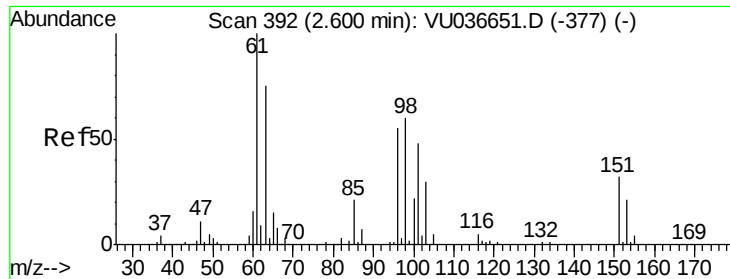
Tgt Ion: 64 Resp: 87736
Ion Ratio Lower Upper
64 100
66 31.3 21.8 40.4



#9
Trichlorofluoromethane
Concen: 51.586 ug/L
RT: 2.15 min Scan# 253
Delta R.T. 0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

Tgt Ion: 101 Resp: 160503
Ion Ratio Lower Upper
101 100
103 65.1 51.6 77.4





#10

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

Concen: 50.902 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

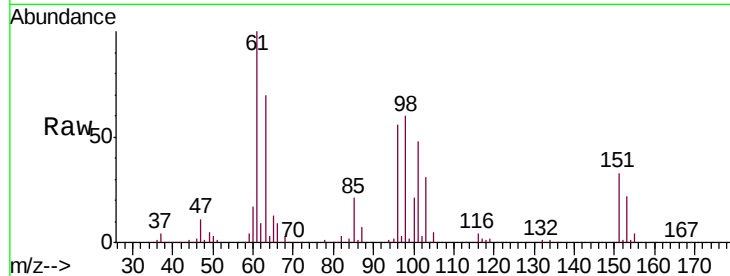
Tgt Ion:101 Resp: 91201

Ion Ratio Lower Upper

101 100

85 45.1 35.8 53.8

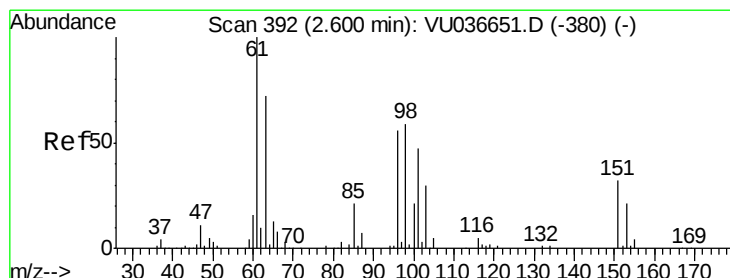
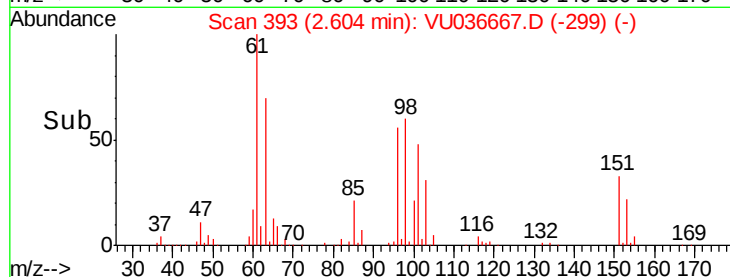
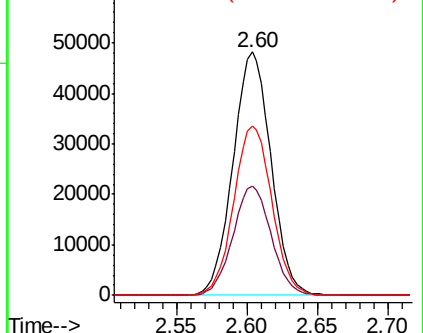
151 69.6 54.7 82.1



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: 51.071 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

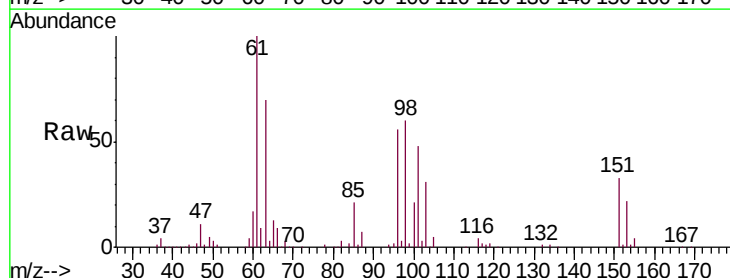
Tgt Ion: 96 Resp: 93079

Ion Ratio Lower Upper

96 100

61 177.0 126.8 235.4

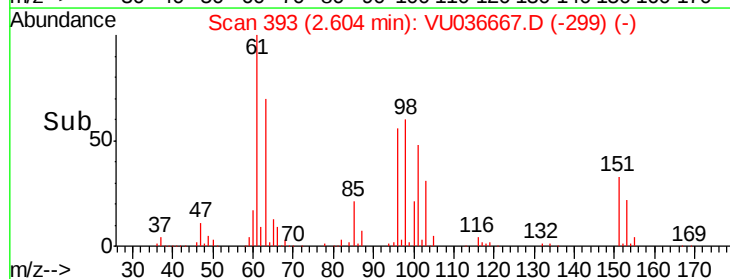
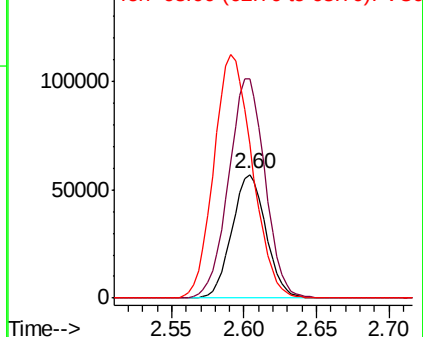
63 124.7 95.8 177.8

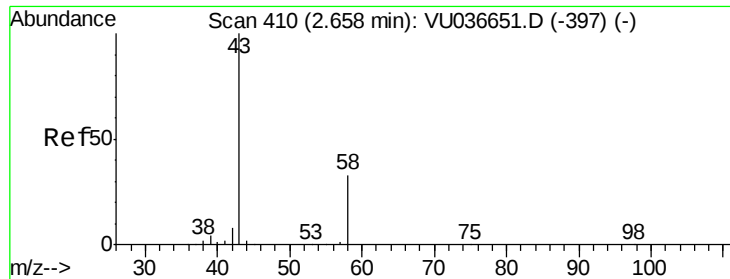


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 93.573 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

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ClientSampleId :

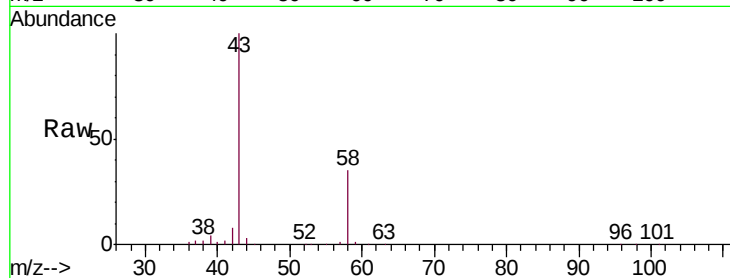
VSTD05052

Tgt Ion: 43 Resp: 128263

Ion Ratio Lower Upper

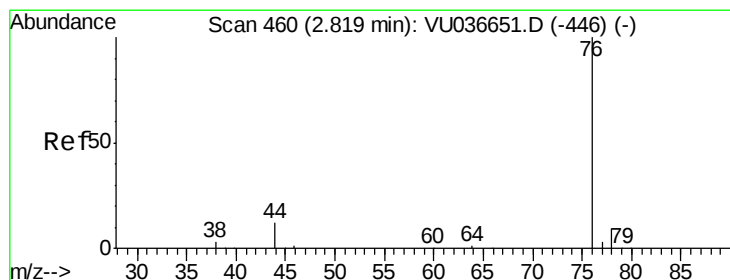
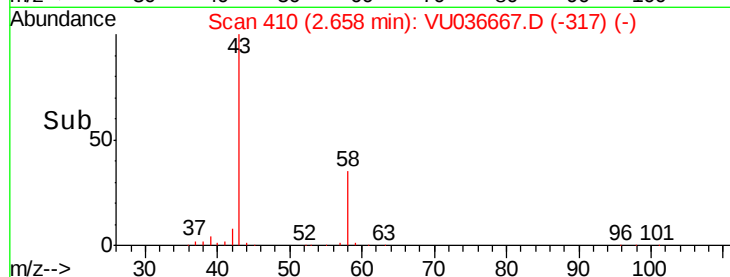
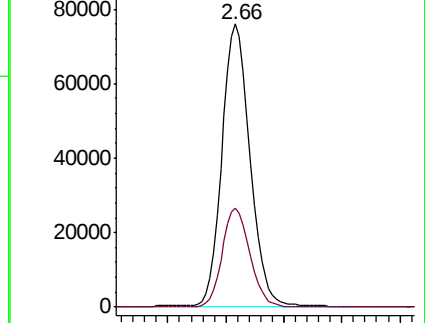
43 100

58 34.3 0.0 67.8



Abundance Ion 43.00 (42.70 to 43.70): VU036667.D (-317) (-)

Ion 58.00 (57.70 to 58.70): VU036667.D (-317) (-)



#14

Carbon disulfide

Concen: 50.599 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU036667.D

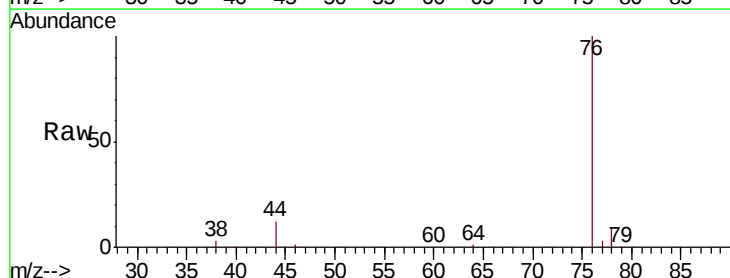
Acq: 01 Feb 2020 02:50

Tgt Ion: 76 Resp: 281457

Ion Ratio Lower Upper

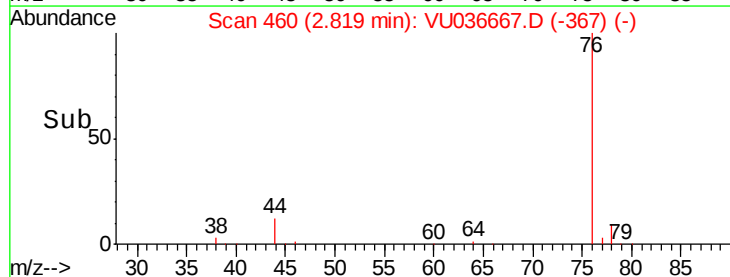
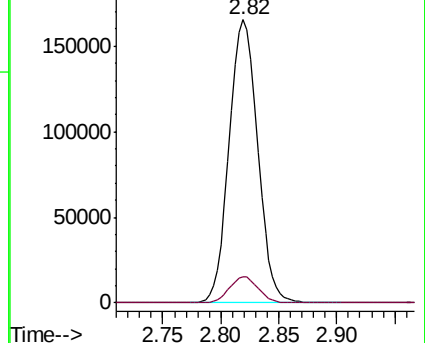
76 100

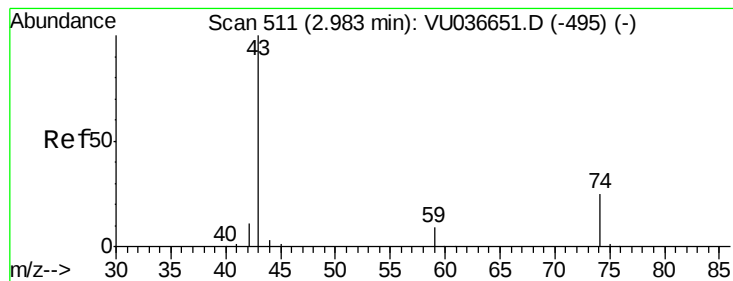
78 9.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU036667.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU036667.D (-367) (-)





#15

Methyl Acetate

Concen: 51.151 ug/L

RT: 2.98 min Scan# 511

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

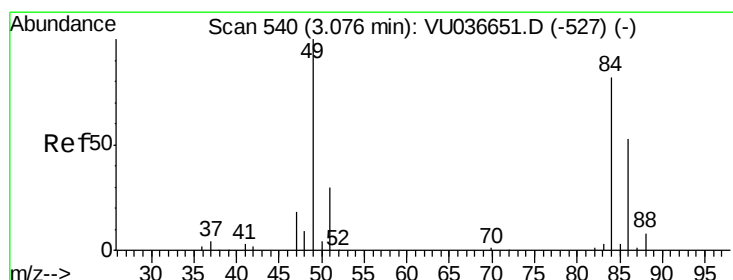
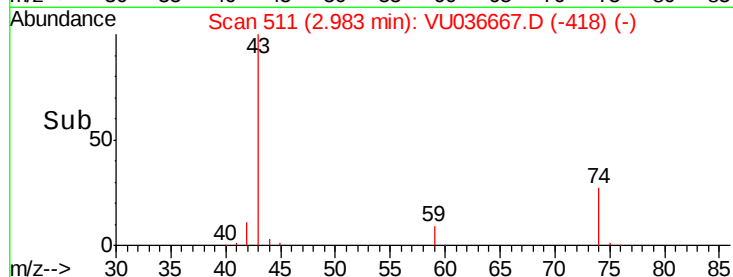
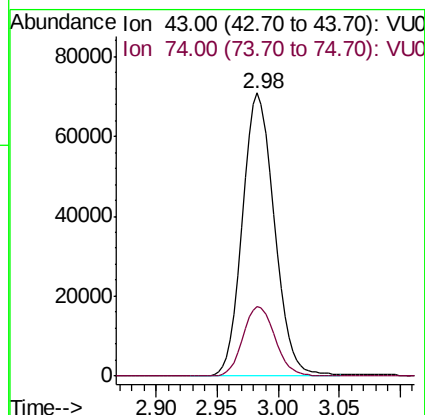
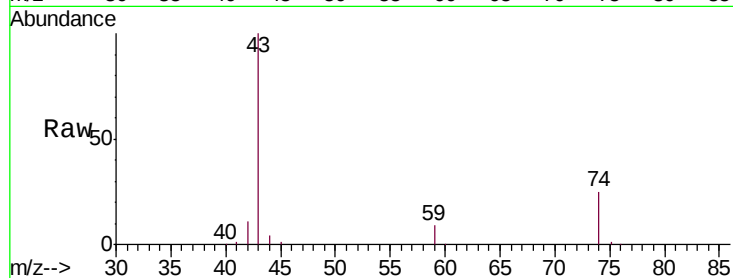
VSTD05052

Tgt Ion: 43 Resp: 127661

Ion Ratio Lower Upper

43 100

74 24.8 19.4 29.2



#16

Methylene chloride

Concen: 50.543 ug/L

RT: 3.08 min Scan# 541

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

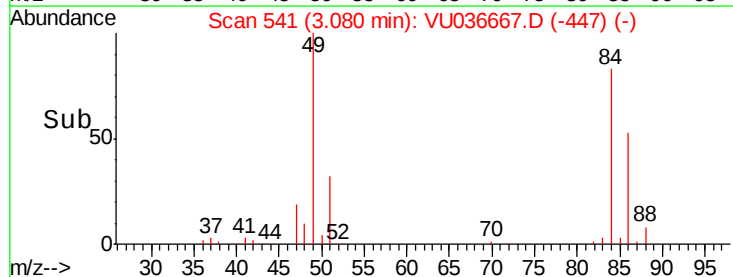
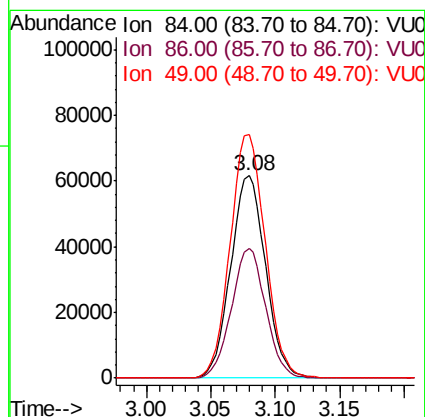
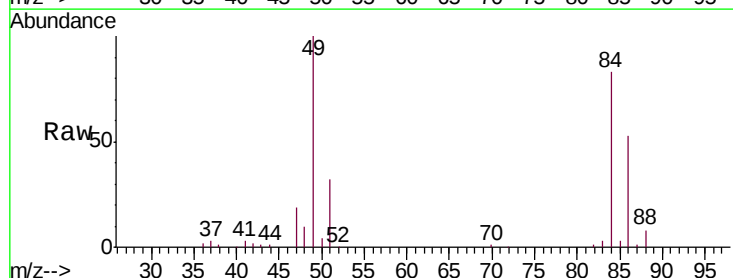
Tgt Ion: 84 Resp: 115771

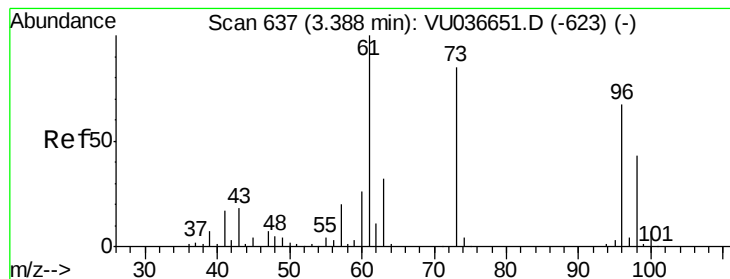
Ion Ratio Lower Upper

84 100

86 64.1 45.1 83.9

49 120.3 85.3 158.3





#17

trans-1,2-Dichloroethene

Concen: 51.385 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

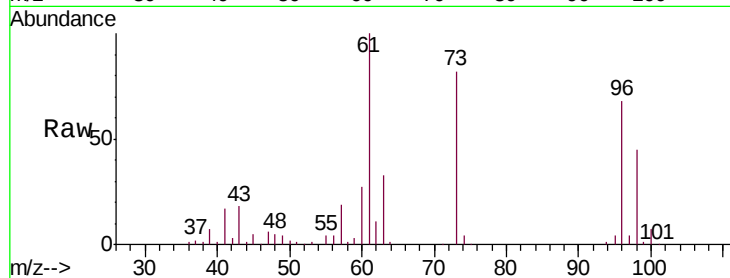
Tgt Ion: 96 Resp: 99517

Ion Ratio Lower Upper

96 100

61 146.3 104.2 193.6

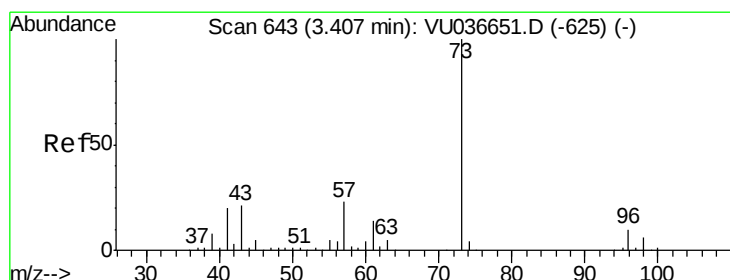
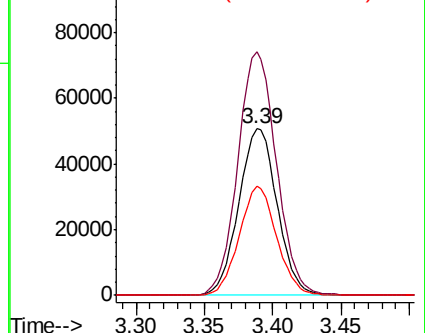
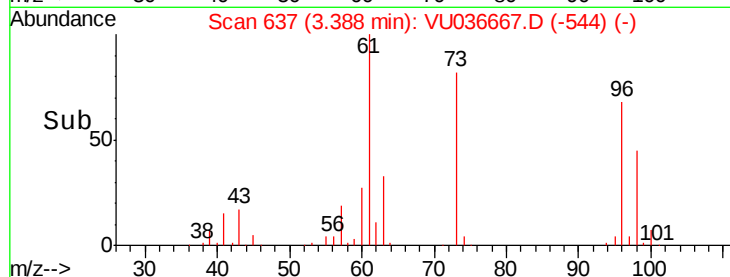
98 65.6 45.2 84.0



Abundance Ion 96.00 (95.70 to 96.70): VU036667.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU036667.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU036667.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 51.835 ug/L

RT: 3.41 min Scan# 643

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

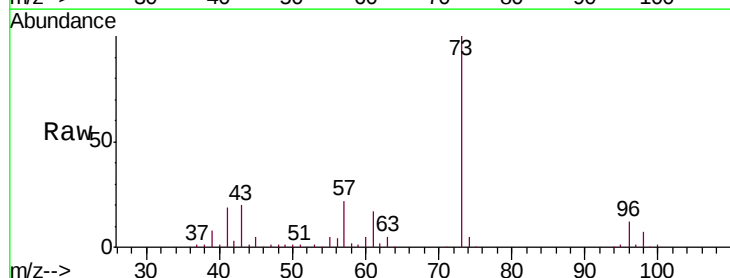
Tgt Ion: 73 Resp: 355445

Ion Ratio Lower Upper

73 100

43 20.1 16.6 24.8

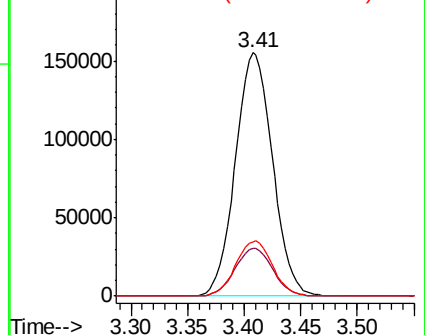
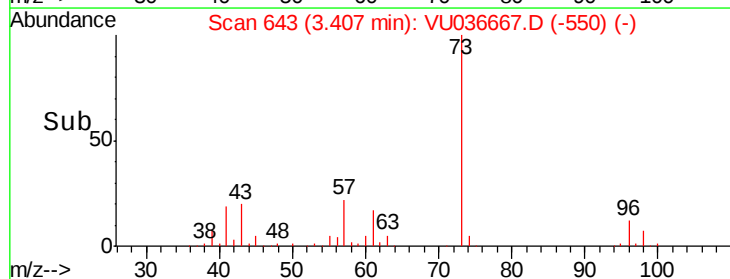
57 22.7 18.0 27.0

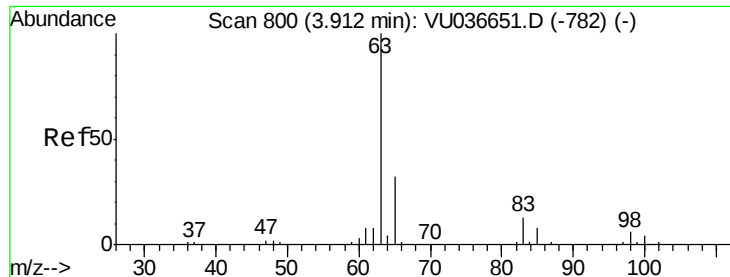


Abundance Ion 73.00 (72.70 to 73.70): VU036667.D (-550) (-)

Ion 43.00 (42.70 to 43.70): VU036667.D (-550) (-)

Ion 57.00 (56.70 to 57.70): VU036667.D (-550) (-)

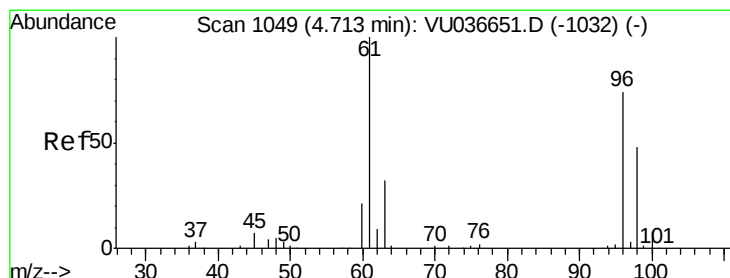
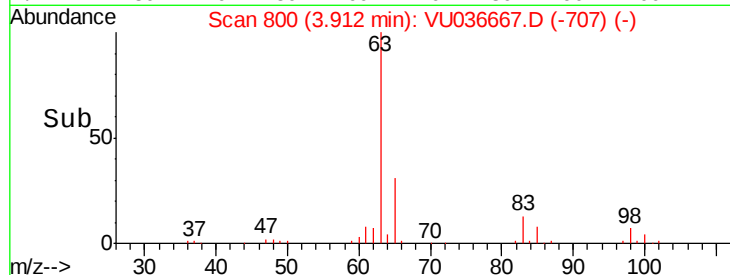
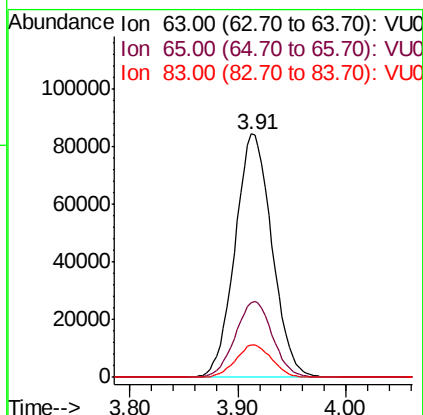
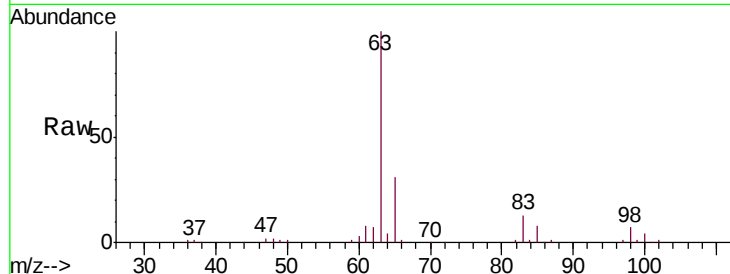




#19
 1,1-Dichloroethane
 Concen: 51.874 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU036667.D
 Acq: 01 Feb 2020 02:50

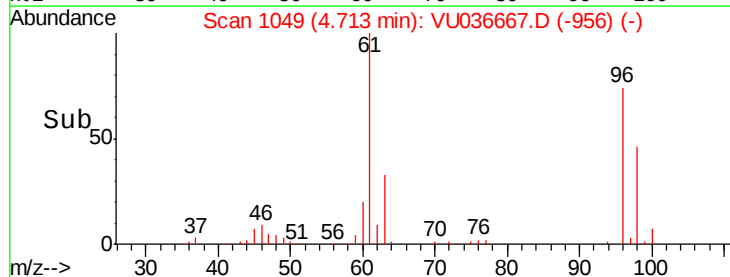
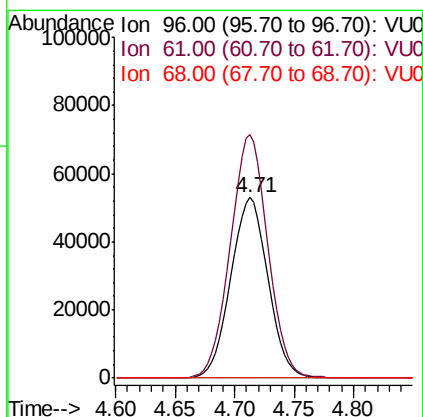
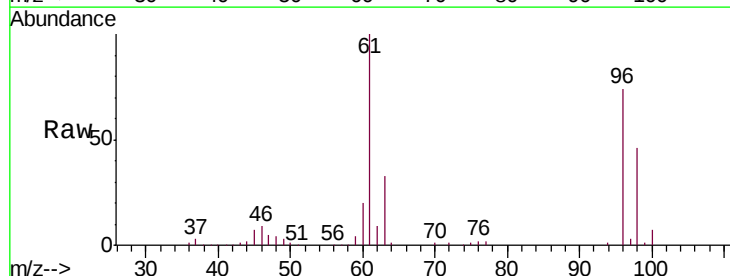
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05052

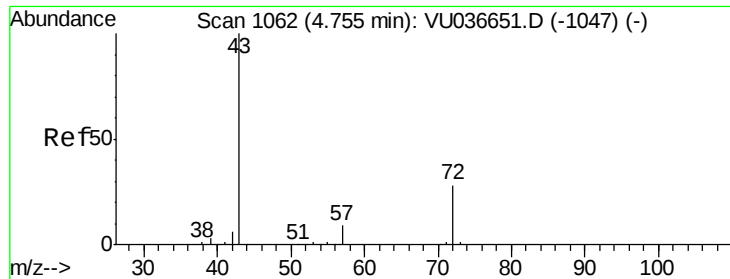
Tgt Ion: 63 Resp: 201030
 Ion Ratio Lower Upper
 63 100
 65 30.7 22.3 41.5
 83 13.3 9.0 16.8



#20
 cis-1,2-Dichloroethene
 Concen: 51.613 ug/L
 RT: 4.71 min Scan# 1049
 Delta R.T. -0.00 min
 Lab File: VU036667.D
 Acq: 01 Feb 2020 02:50

Tgt Ion: 96 Resp: 115412
 Ion Ratio Lower Upper
 96 100
 61 135.0 94.9 176.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 102.310 ug/L

RT: 4.75 min Scan# 1062

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

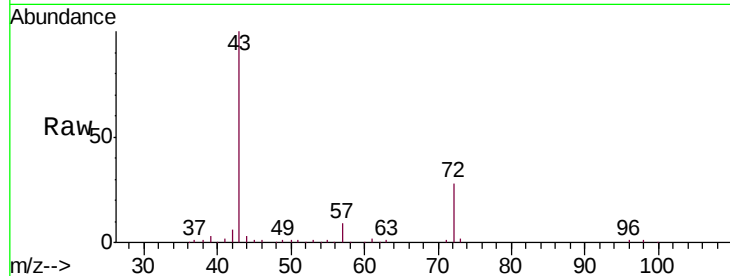
VSTD05052

Tgt Ion: 43 Resp: 191742

Ion Ratio Lower Upper

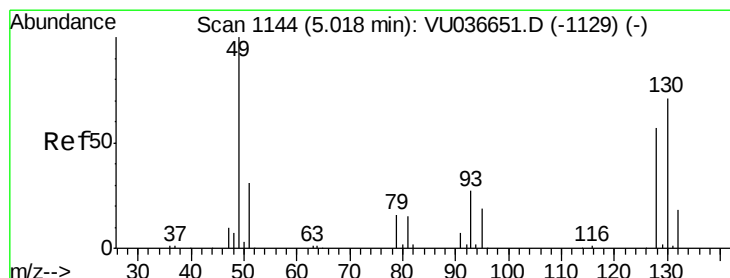
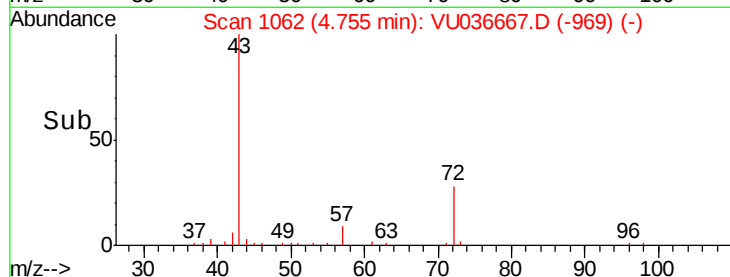
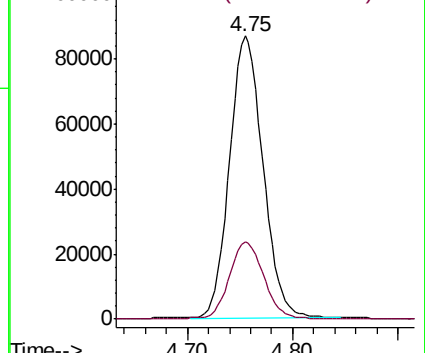
43 100

72 28.4 14.6 44.0



Abundance Ion 43.00 (42.70 to 43.70): VU036667.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU036667.D (-969) (-)



#23

Bromochloromethane

Concen: 50.947 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Tgt Ion: 128 Resp: 52265

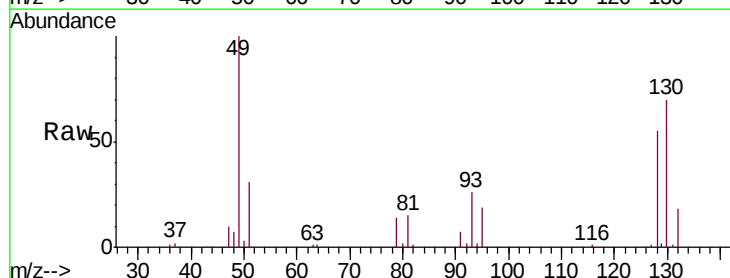
Ion Ratio Lower Upper

128 100

49 182.7 123.8 229.8

130 127.5 87.8 163.2

51 56.7 43.4 65.0

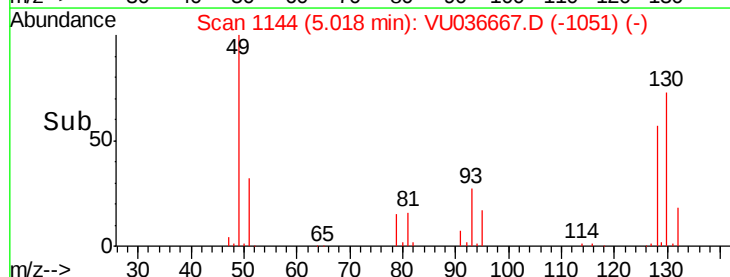
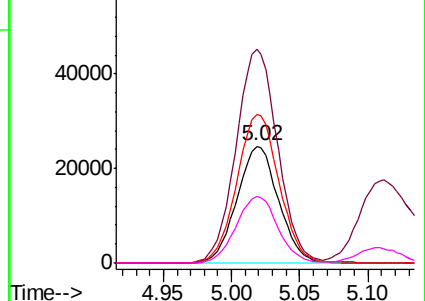


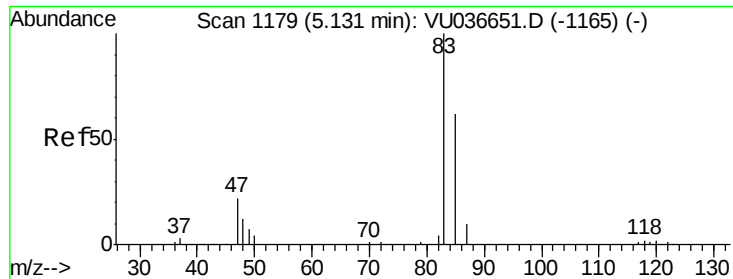
Abundance Ion 128.00 (127.70 to 128.70): VU036667.D (-1051) (-)

Ion 49.00 (48.70 to 49.70): VU036667.D (-1051) (-)

Ion 130.00 (129.70 to 130.70): VU036667.D (-1051) (-)

Ion 51.00 (50.70 to 51.70): VU036667.D (-1051) (-)

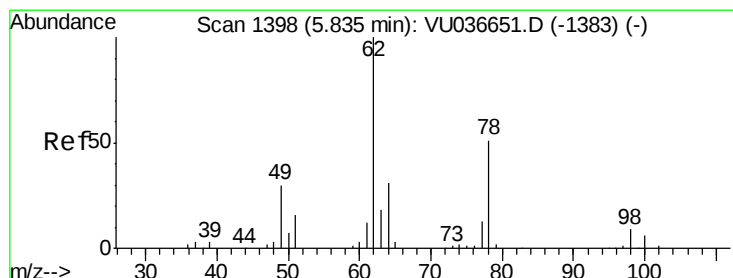
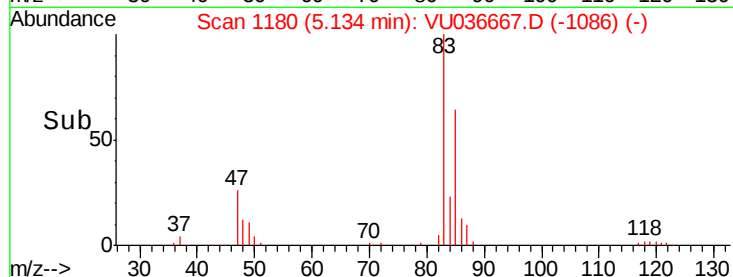
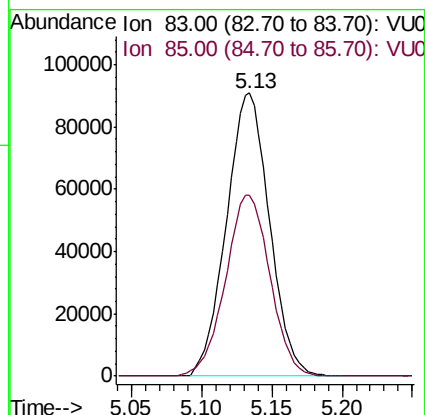
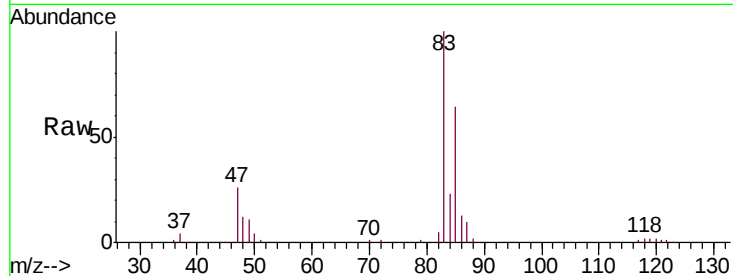




#25
Chloroform
Concen: 52.158 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

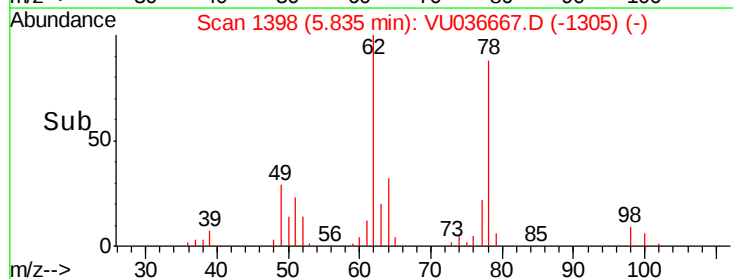
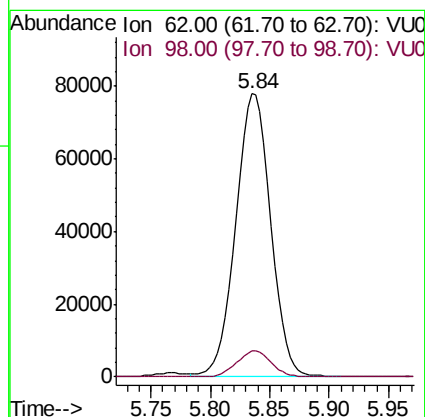
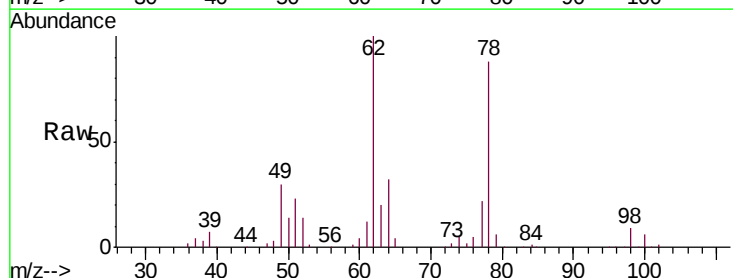
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

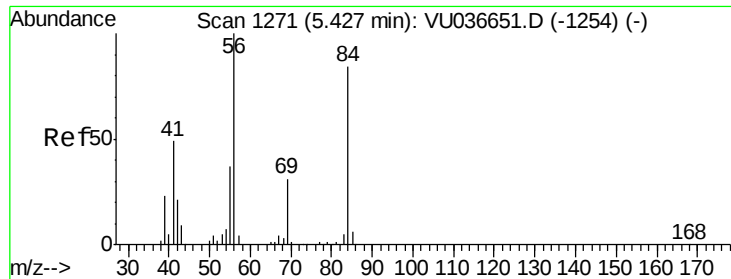
Tgt Ion: 83 Resp: 193924
Ion Ratio Lower Upper
83 100
85 63.8 44.3 82.3



#27
1,2-Dichloroethane
Concen: 51.960 ug/L
RT: 5.84 min Scan# 1398
Delta R.T. 0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

Tgt Ion: 62 Resp: 157932
Ion Ratio Lower Upper
62 100
98 9.1 7.3 10.9

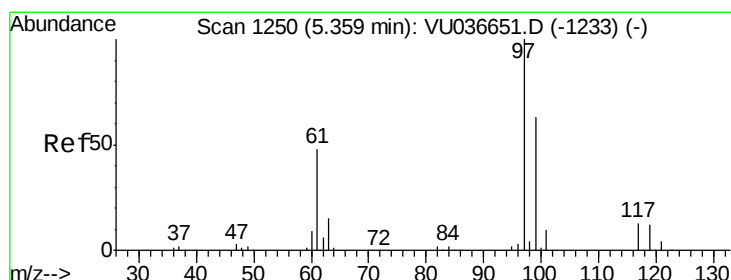
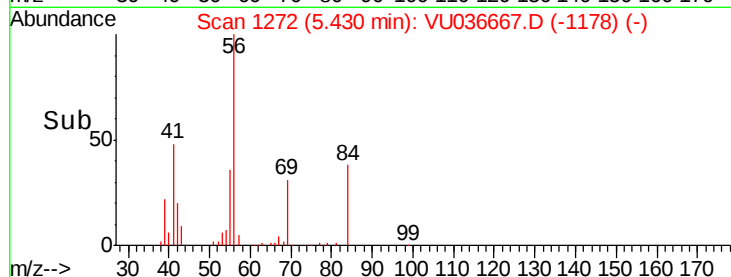
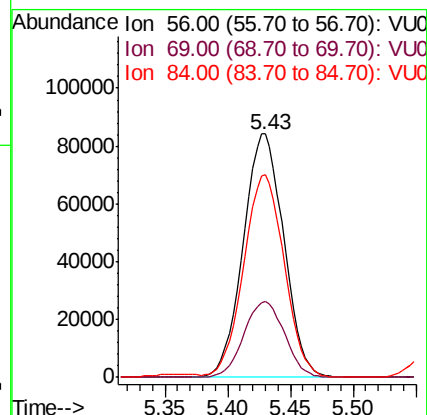
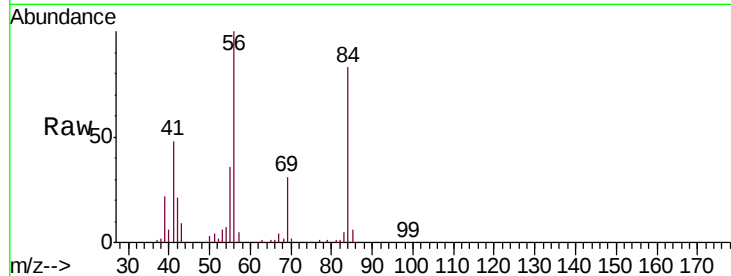




#29
Cyclohexane
Concen: 52.138 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

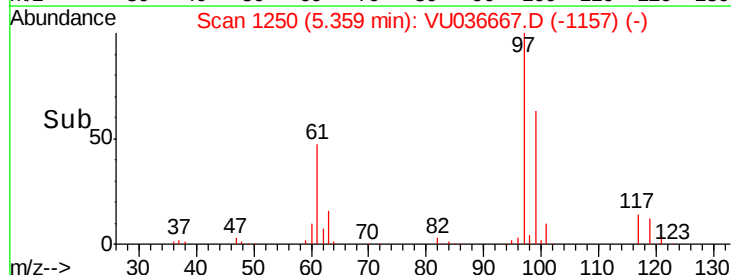
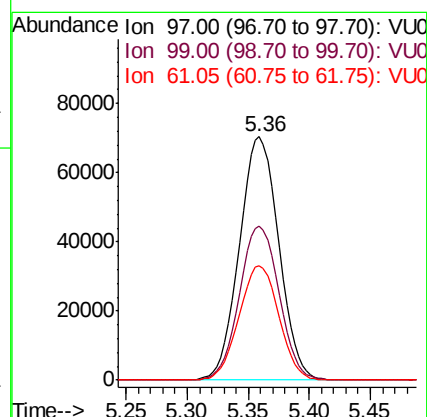
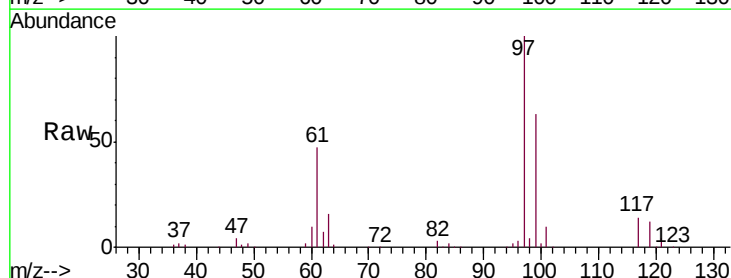
Instrument :
MSVOA_U
ClientSampled :
VSTD05052

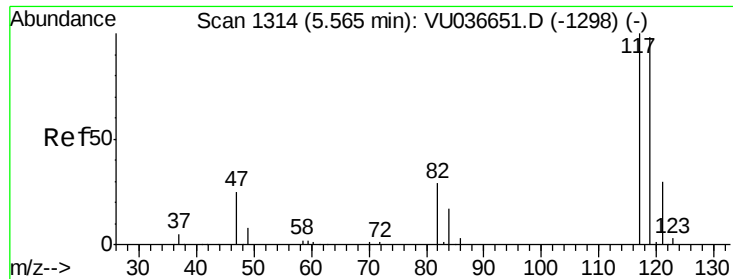
Tgt Ion: 56 Resp: 189075
Ion Ratio Lower Upper
56 100
69 31.2 25.0 37.4
84 83.3 66.2 99.2



#30
1,1,1-Trichloroethane
Concen: 52.603 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

Tgt Ion: 97 Resp: 157431
Ion Ratio Lower Upper
97 100
99 63.9 51.5 77.3
61 47.6 38.2 57.4

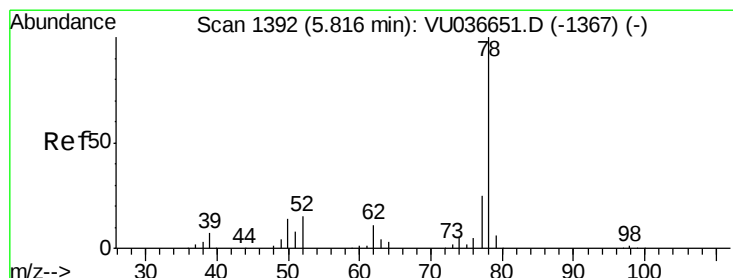
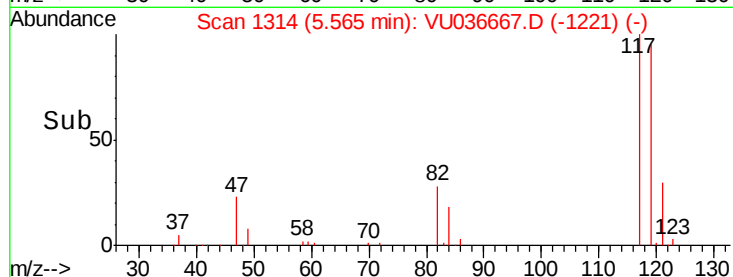
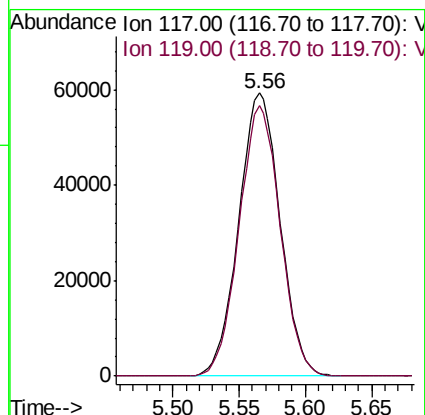
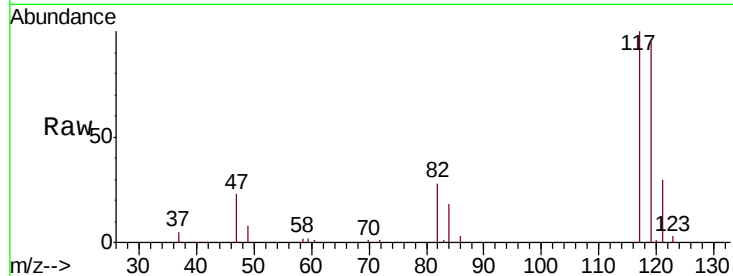




#31
Carbon tetrachloride
Concen: 52.837 ug/L
RT: 5.56 min Scan# 1314
Delta R.T. 0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

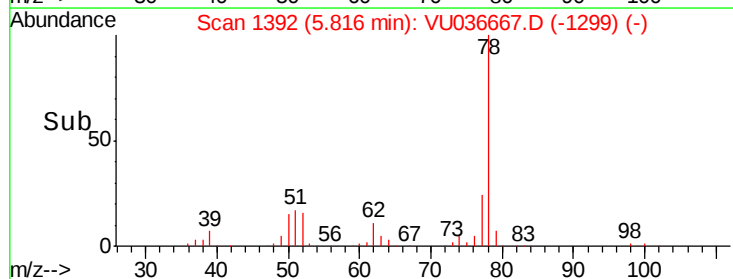
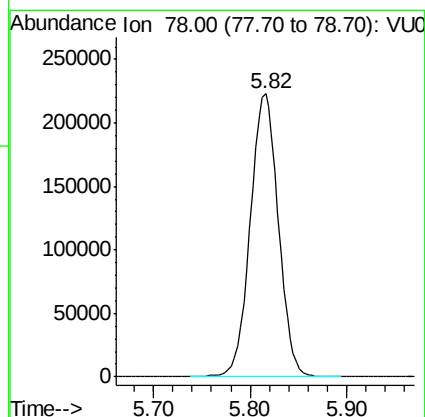
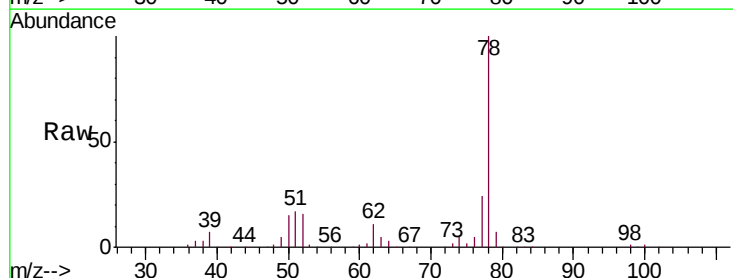
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

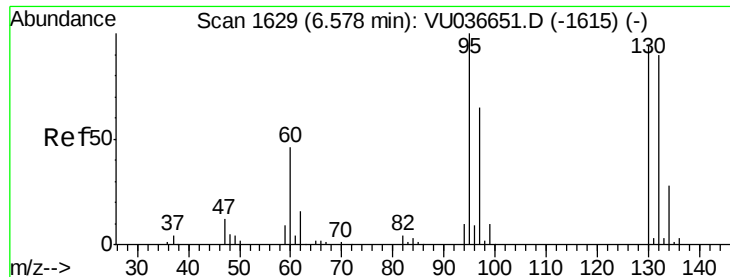
Tgt Ion:117 Resp: 128298
Ion Ratio Lower Upper
117 100
119 94.9 77.7 116.5



#33
Benzene
Concen: 52.541 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

Tgt Ion: 78 Resp: 449701





#34

Trichloroethene

Concen: 52.618 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion: 95 Resp: 109535

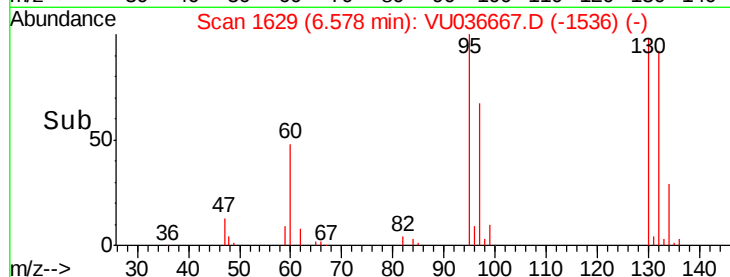
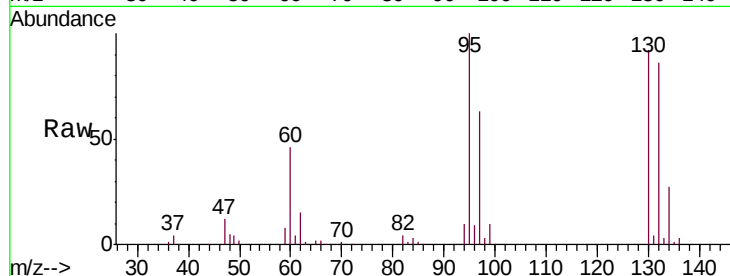
Ion Ratio Lower Upper

95 100

97 62.8 45.4 84.4

132 86.3 63.2 117.4

130 92.0 65.9 122.3

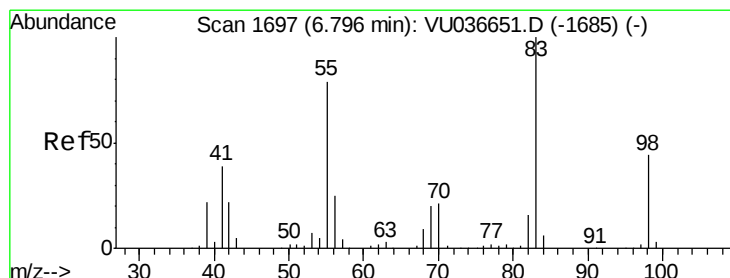
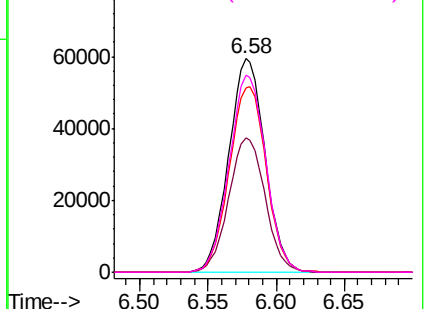


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 51.927 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

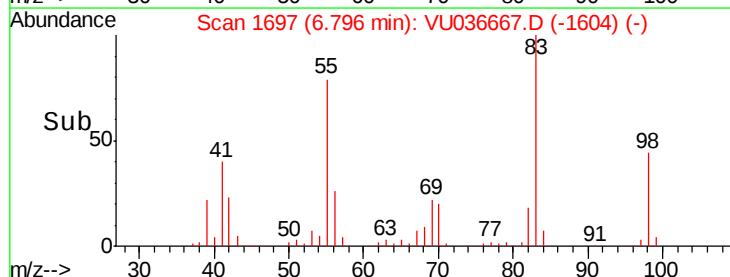
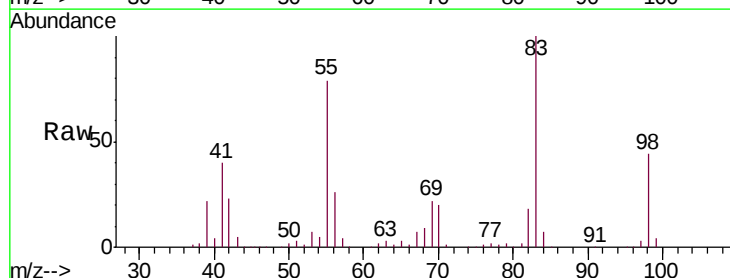
Tgt Ion: 83 Resp: 185233

Ion Ratio Lower Upper

83 100

55 77.7 63.1 94.7

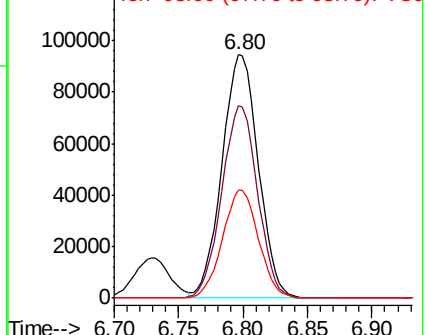
98 44.0 35.0 52.6

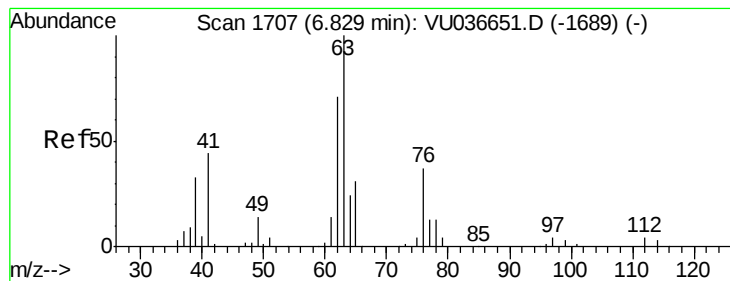


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 52.951 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

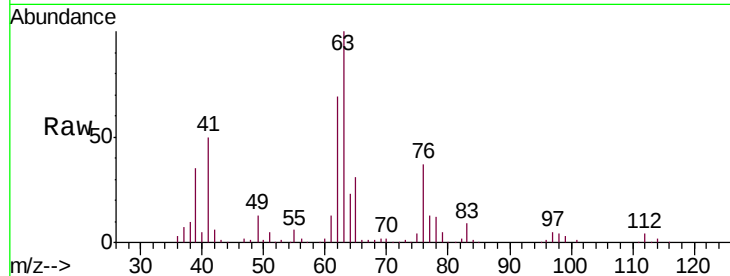
VSTD05052

Tgt Ion: 63 Resp: 122853

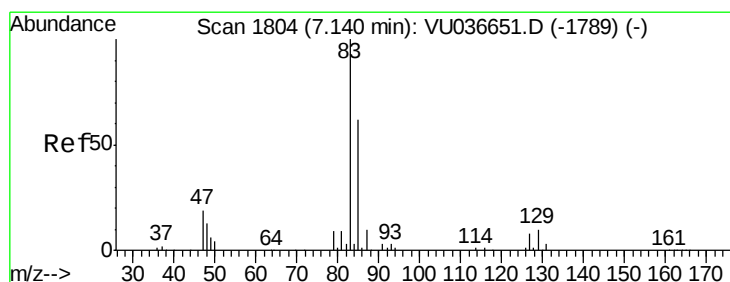
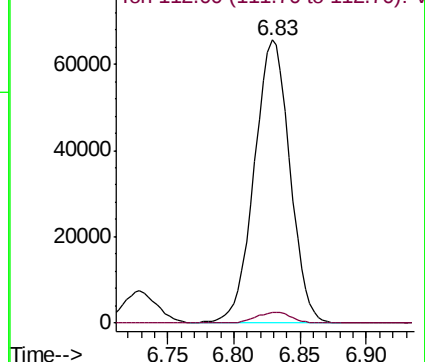
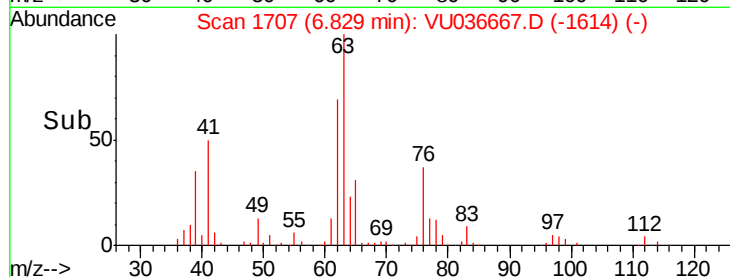
Ion Ratio Lower Upper

63 100

112 3.7 3.0 4.6



Abundance Ion 63.00 (62.70 to 63.70): VU036667.D (-1614) (-)



#38

Bromodichloromethane

Concen: 51.926 ug/L

RT: 7.14 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

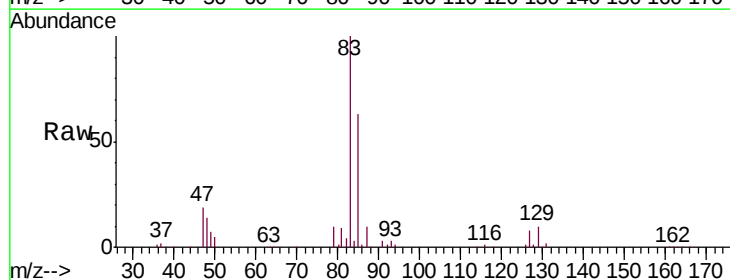
Tgt Ion: 83 Resp: 144862

Ion Ratio Lower Upper

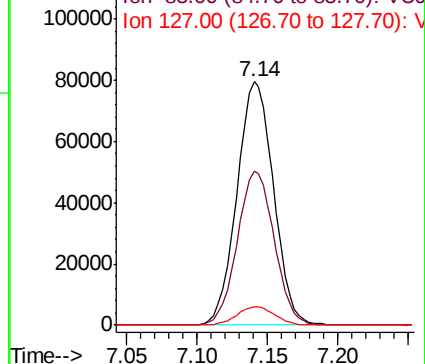
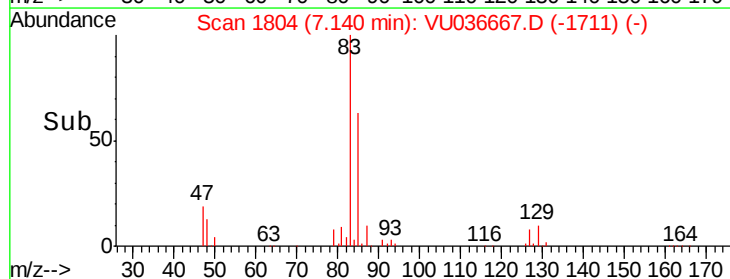
83 100

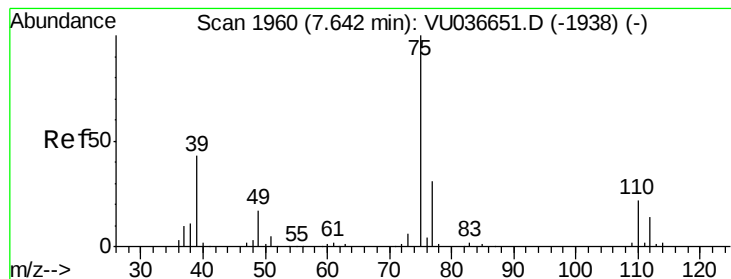
85 63.2 43.2 80.2

127 7.5 6.4 9.6



Abundance Ion 83.00 (82.70 to 83.70): VU036667.D (-1711) (-)



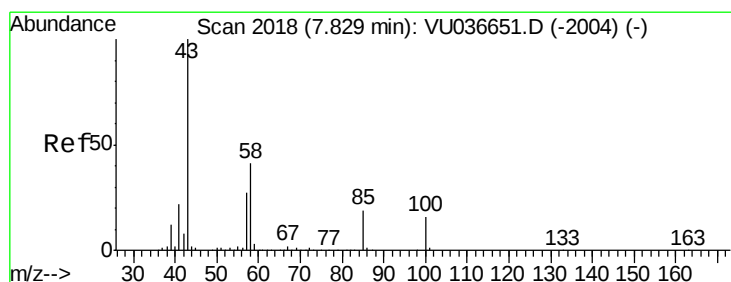
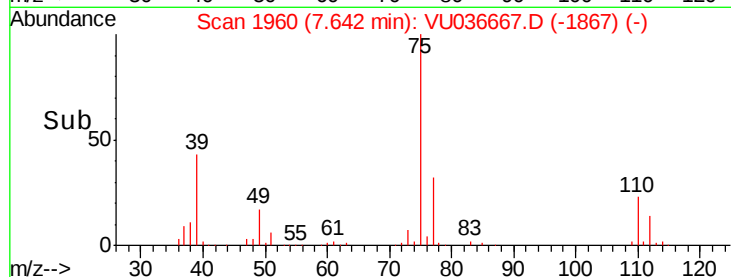
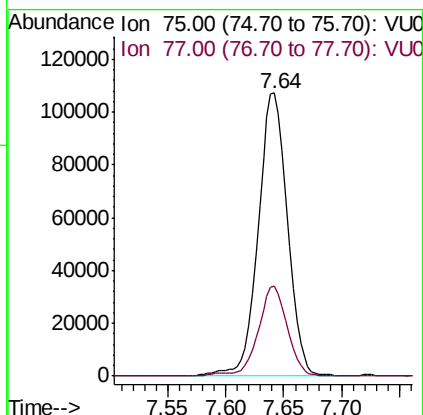
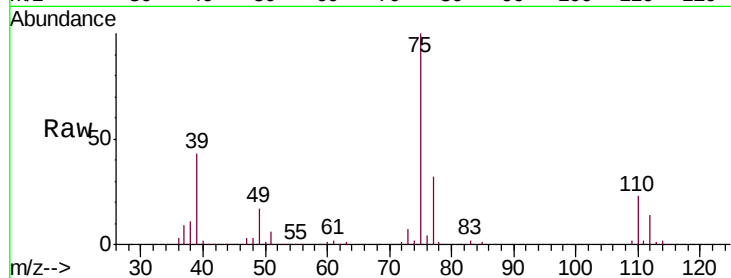


#39

cis-1,3-Dichloropropene
Concen: 51.454 ug/L
RT: 7.64 min Scan# 1960
Delta R.T. -0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

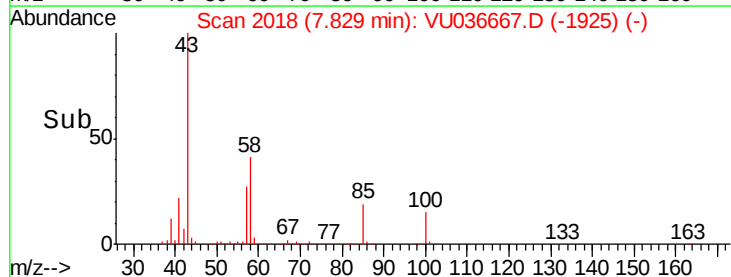
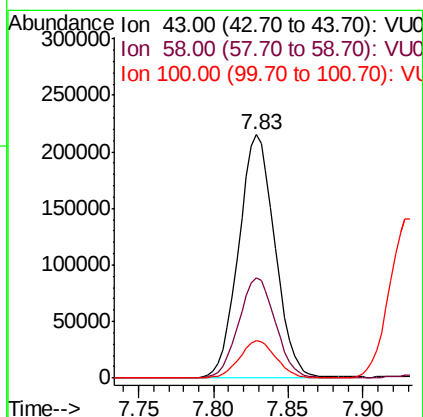
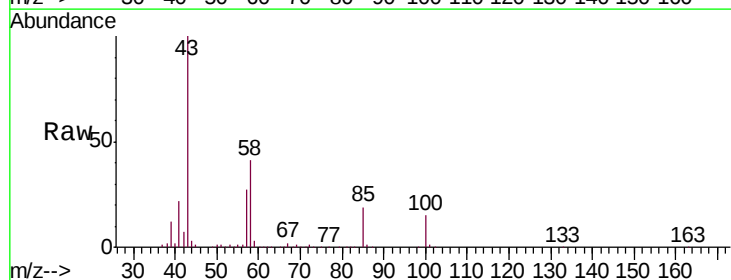
Tgt Ion: 75 Resp: 188955
Ion Ratio Lower Upper
75 100
77 31.9 22.0 41.0

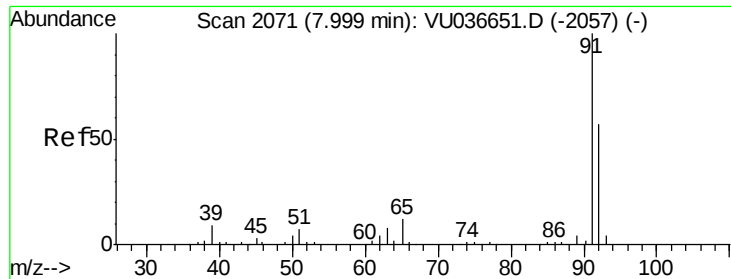


#40

4-Methyl-2-pentanone
Concen: 103.749 ug/L
RT: 7.83 min Scan# 2018
Delta R.T. -0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

Tgt Ion: 43 Resp: 363534
Ion Ratio Lower Upper
43 100
58 41.9 33.3 49.9
100 15.5 12.4 18.6





#42

Toluene

Concen: 52.063 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

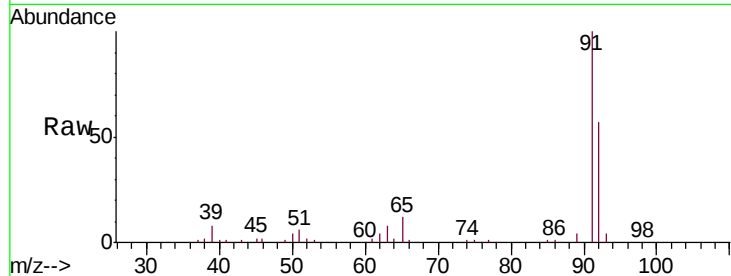
VSTD05052

Tgt Ion: 91 Resp: 478183

Ion Ratio Lower Upper

91 100

92 57.5 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU036667.D (-1978) (-)

Ion 92.00 (91.70 to 92.70): VU036667.D (-1978) (-)

8.00

300000

250000

200000

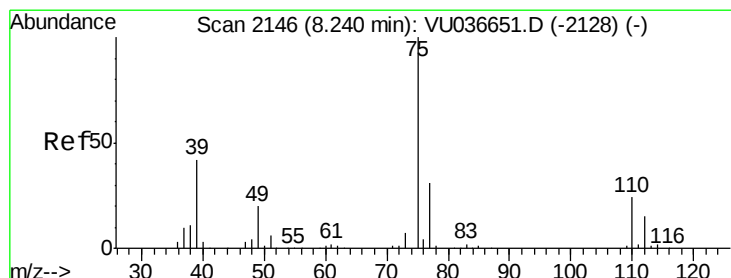
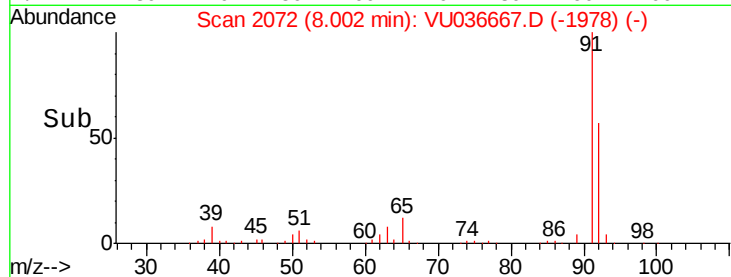
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.843 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036667.D

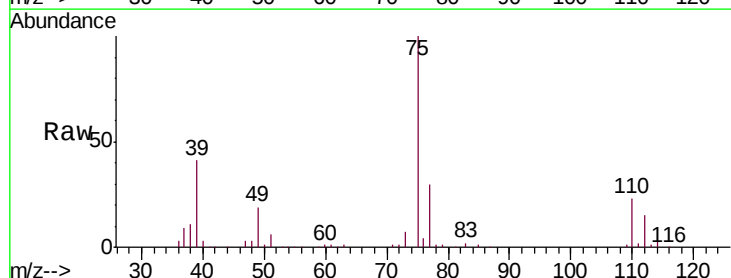
Acq: 01 Feb 2020 02:50

Tgt Ion: 75 Resp: 164837

Ion Ratio Lower Upper

75 100

77 30.5 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU036667.D (-2053) (-)

Ion 77.00 (76.70 to 77.70): VU036667.D (-2053) (-)

8.24

100000

80000

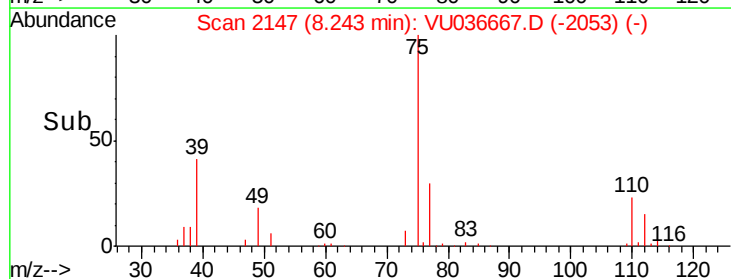
60000

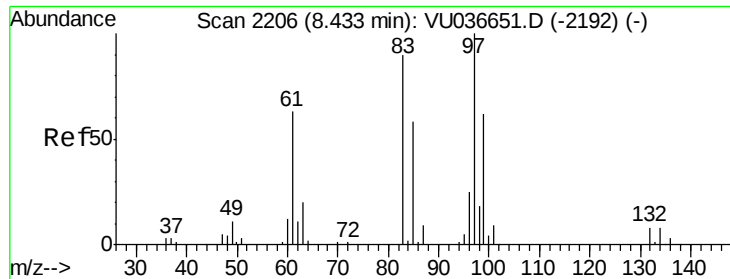
40000

20000

0

Time-->

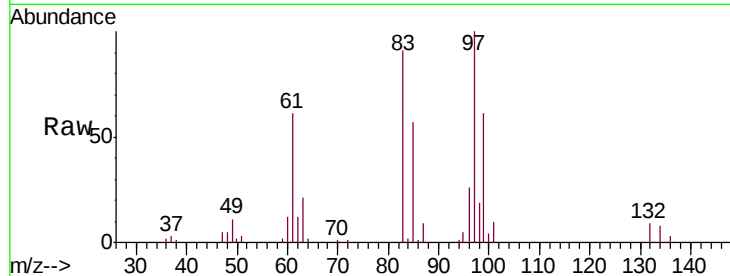




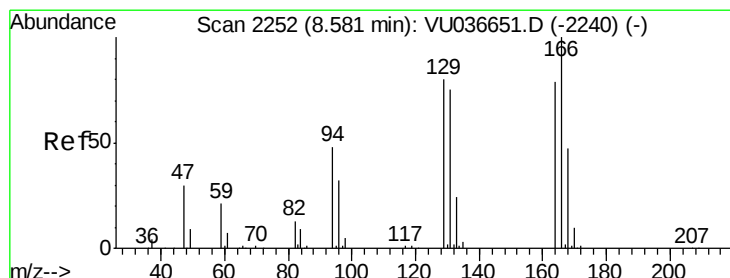
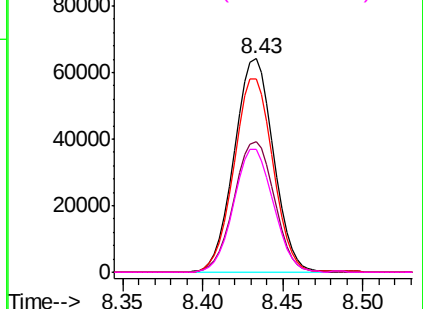
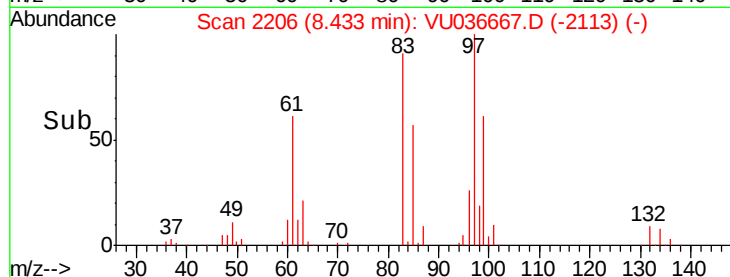
#45
 1,1,2-Trichloroethane
 Concen: 51.388 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036667.D
 Acq: 01 Feb 2020 02:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:	97	Resp:	107593
Ion	Ratio	Lower	Upper
97	100		
99	61.3	43.4	80.6
83	90.8	63.0	117.0
85	57.4	40.3	74.9

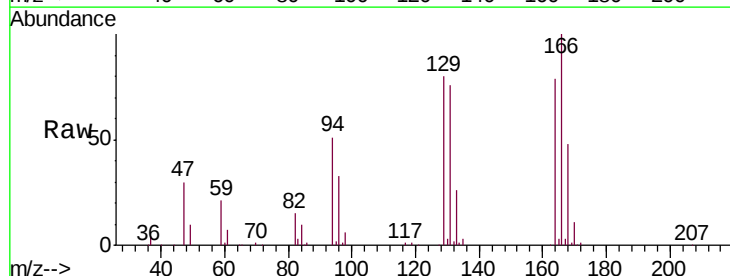


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

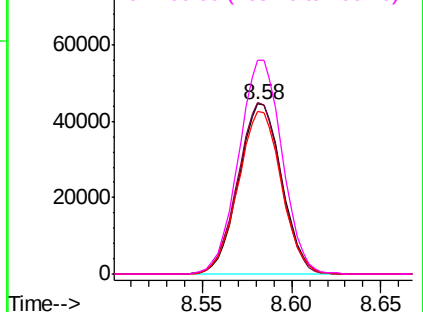
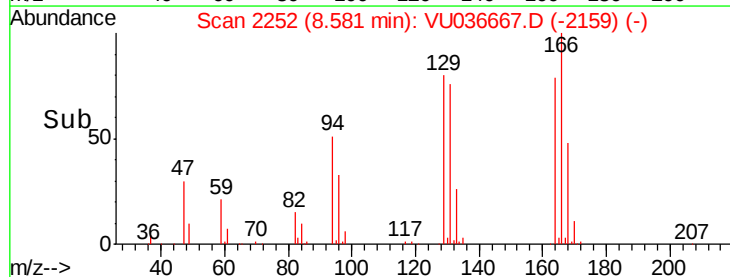


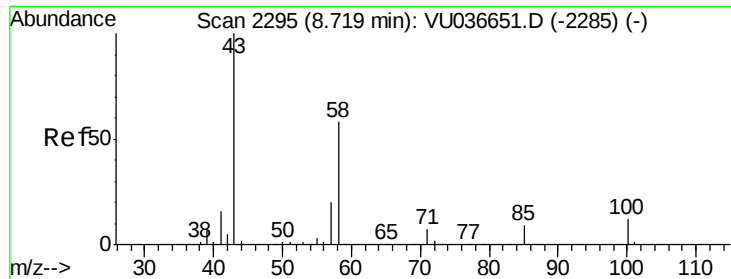
#46
 Tetrachloroethene
 Concen: 49.099 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: VU036667.D
 Acq: 01 Feb 2020 02:50

Tgt Ion:	164	Resp:	75226
Ion	Ratio	Lower	Upper
164	100		
129	101.1	71.1	132.1
131	96.0	66.9	124.3
166	125.8	89.0	165.4



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

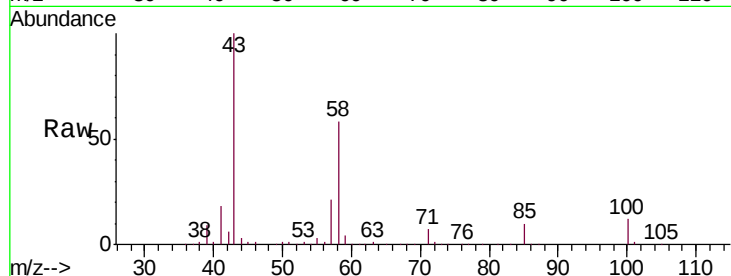




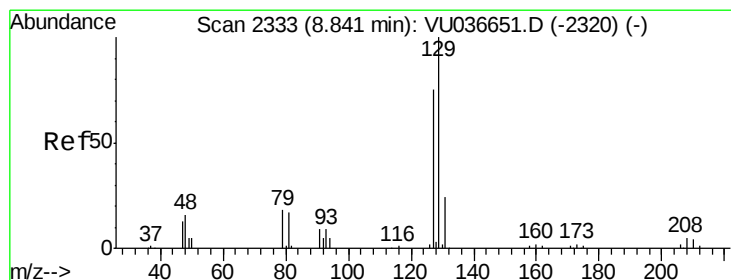
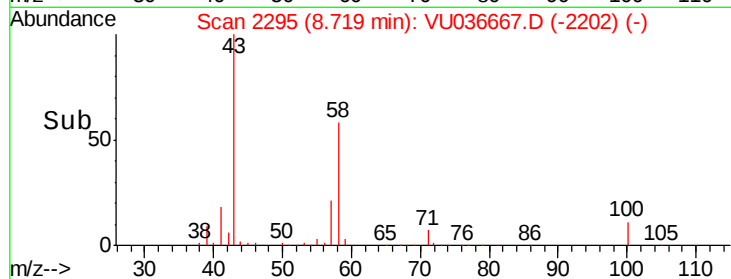
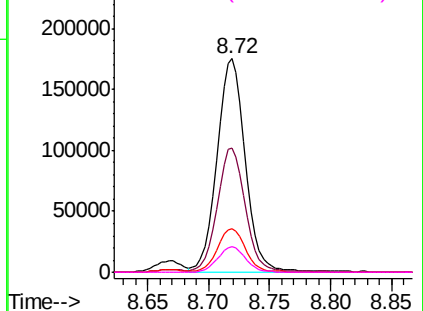
#48
2-Hexanone
Concen: 105.780 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Tgt Ion:	43	Resp:	287127
Ion	Ratio	Lower	Upper
43	100		
58	57.0	46.2	69.2
57	20.4	16.3	24.5
100	11.8	9.8	14.6

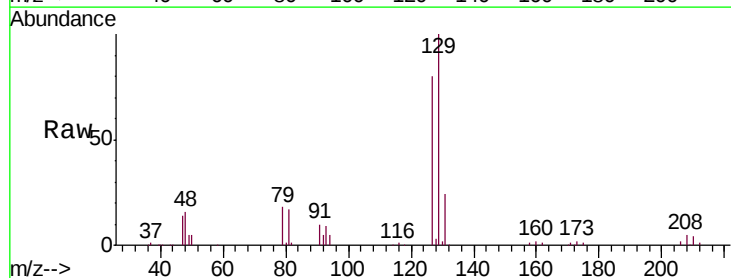


Abundance Ion 43.00 (42.70 to 43.70): VU036667.D (-2295) (-)
Ion 58.00 (57.70 to 58.70): VU036667.D (-2295) (-)
Ion 57.00 (56.70 to 57.70): VU036667.D (-2295) (-)
Ion 100.00 (99.70 to 100.70): VU036667.D (-2295) (-)

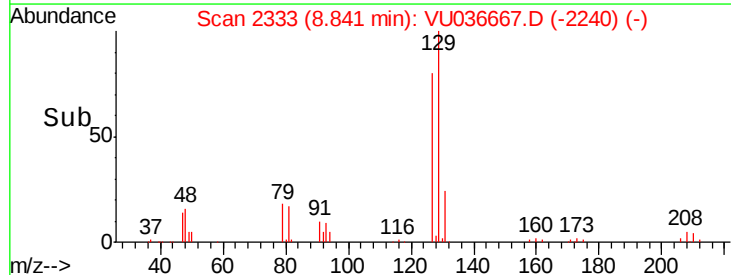
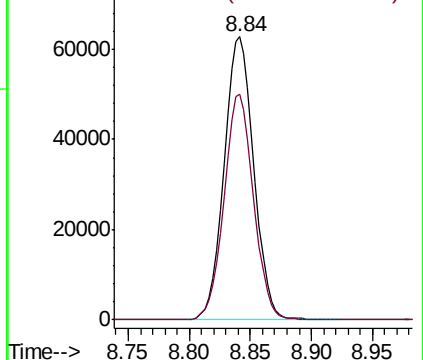


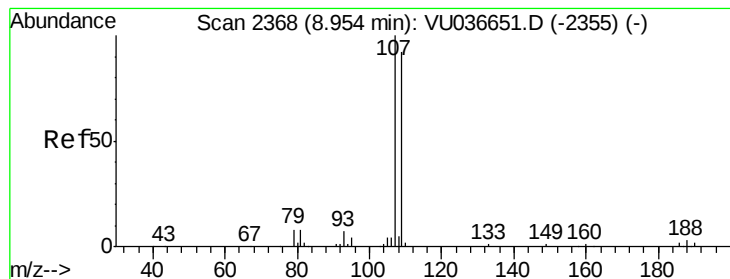
#49
Dibromochloromethane
Concen: 51.940 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

Tgt Ion:	129	Resp:	107026
Ion	Ratio	Lower	Upper
129	100		
127	79.9	52.4	97.2



Abundance Ion 129.00 (128.70 to 129.70): VU036667.D (-2333) (-)
Ion 127.00 (126.70 to 127.70): VU036667.D (-2333) (-)





#50

1,2-Dibromoethane

Concen: 51.454 ug/L

RT: 8.95 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

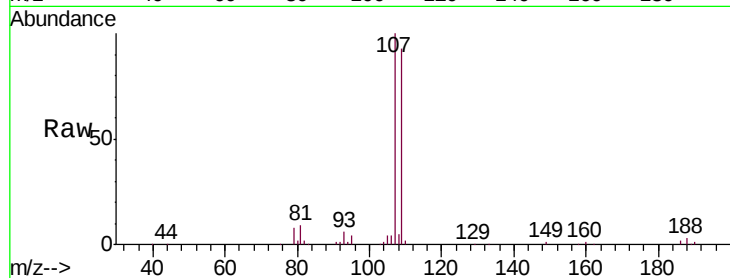
Tgt Ion:107 Resp: 113540

Ion Ratio Lower Upper

107 100

109 93.5 64.5 119.7

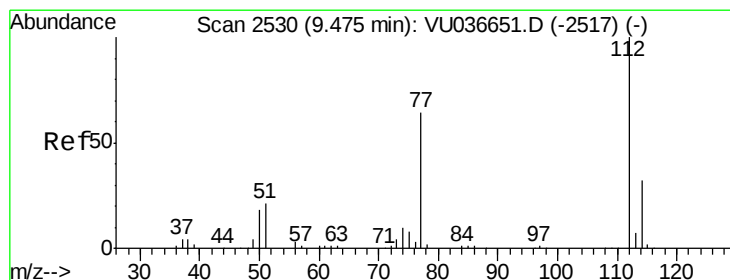
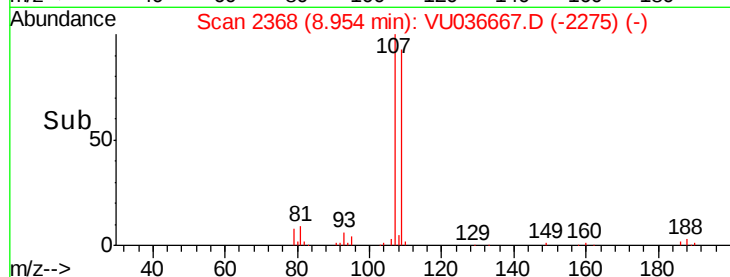
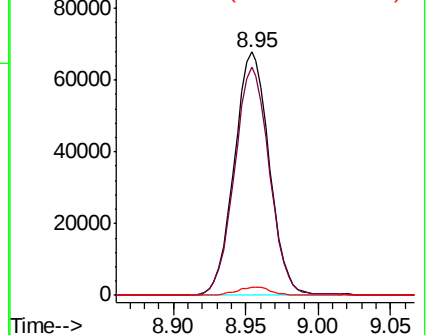
188 3.3 2.5 3.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 51.799 ug/L

RT: 9.47 min Scan# 2530

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

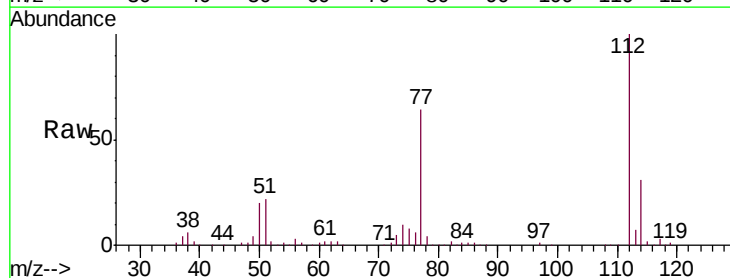
Tgt Ion:112 Resp: 283126

Ion Ratio Lower Upper

112 100

114 31.0 22.5 41.9

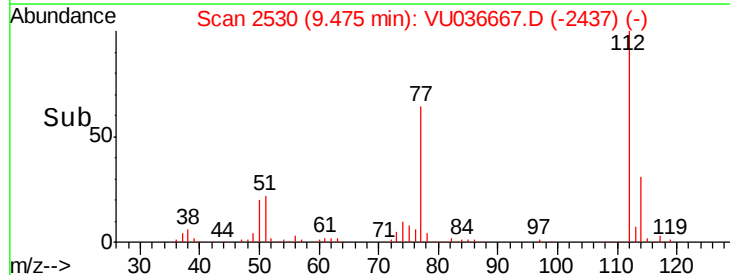
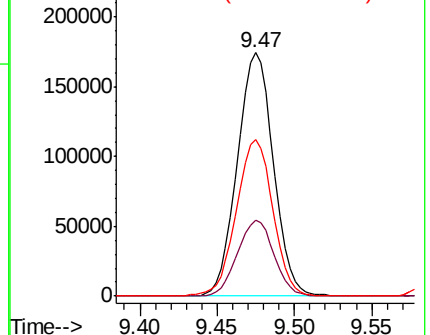
77 64.1 51.4 77.2

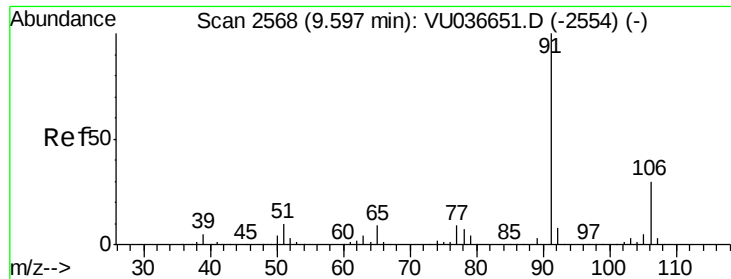


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0

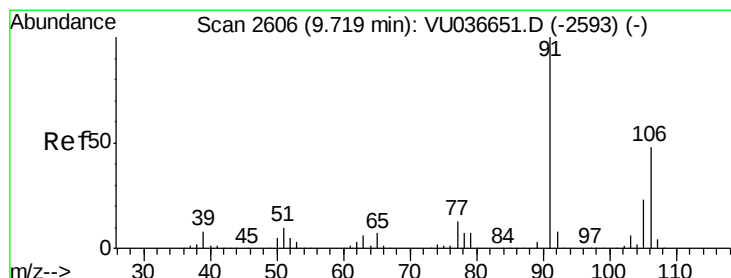
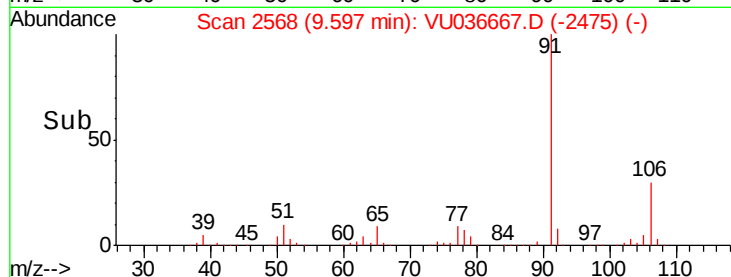
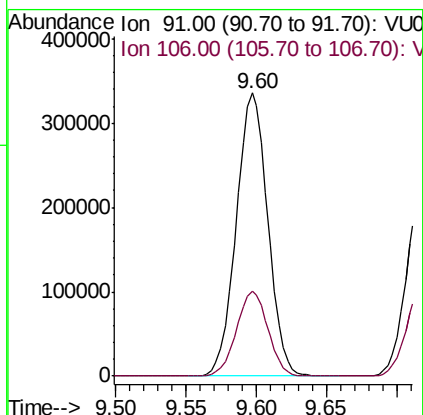
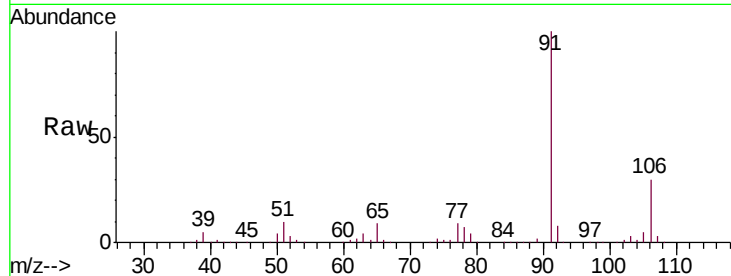




#52
Ethylbenzene
Concen: 52.310 ug/L
RT: 9.60 min Scan# 2568
Delta R.T. -0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

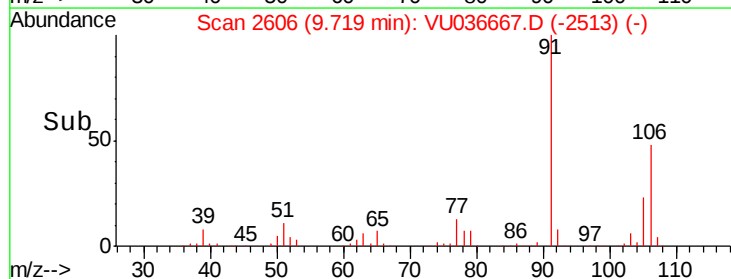
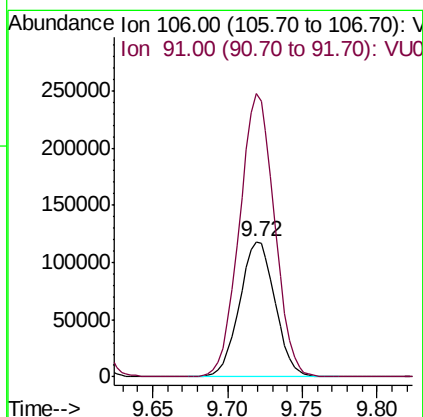
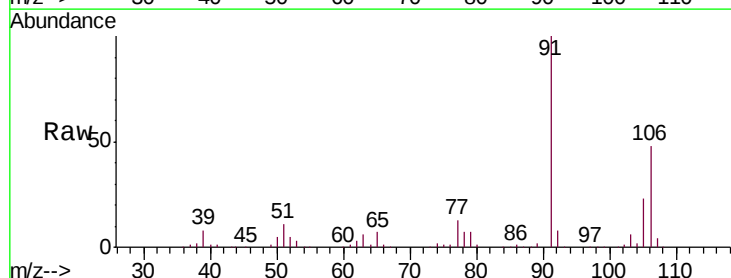
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

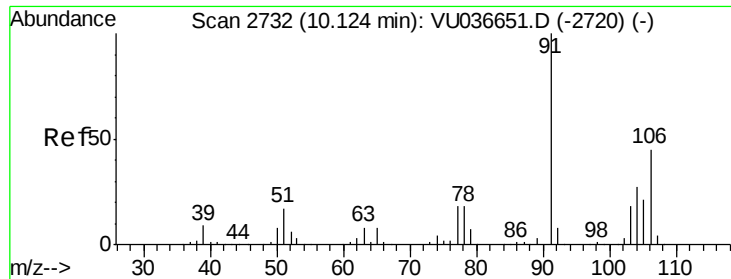
Tgt Ion: 91 Resp: 526691
Ion Ratio Lower Upper
91 100
106 30.0 20.9 38.7



#53
m,p-Xylene
Concen: 52.436 ug/L
RT: 9.72 min Scan# 2606
Delta R.T. -0.00 min
Lab File: VU036667.D
Acq: 01 Feb 2020 02:50

Tgt Ion: 106 Resp: 194724
Ion Ratio Lower Upper
106 100
91 209.1 147.3 273.5





#54

o-xylene

Concen: 51.919 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

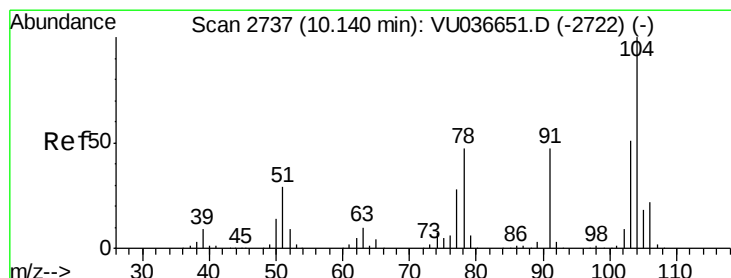
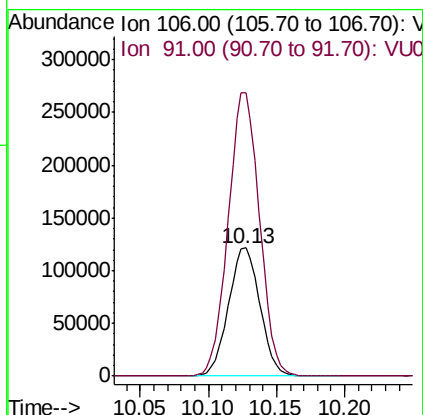
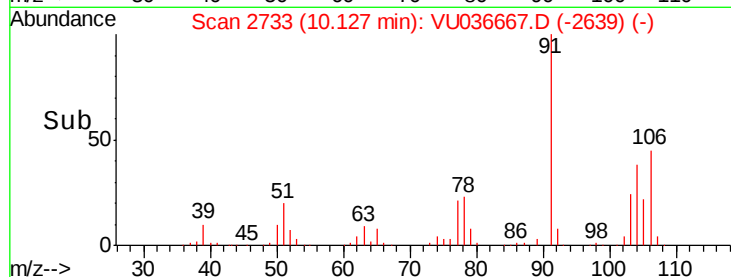
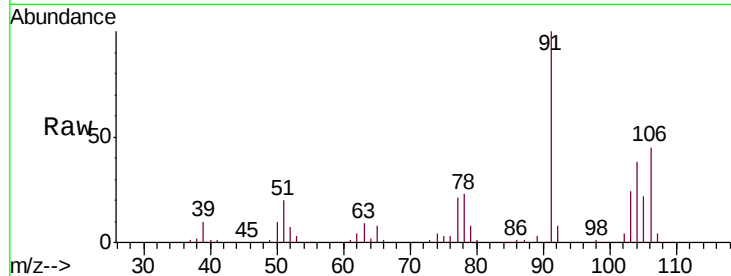
VSTD05052

Tgt Ion:106 Resp: 194224

Ion Ratio Lower Upper

106 100

91 221.0 154.9 287.7



#55

Styrene

Concen: 51.842 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036667.D

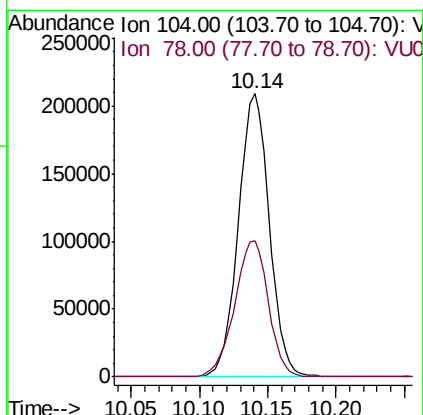
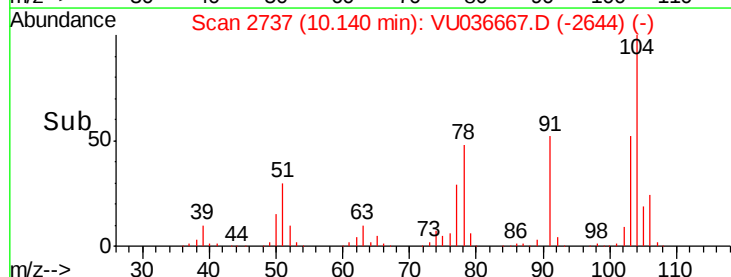
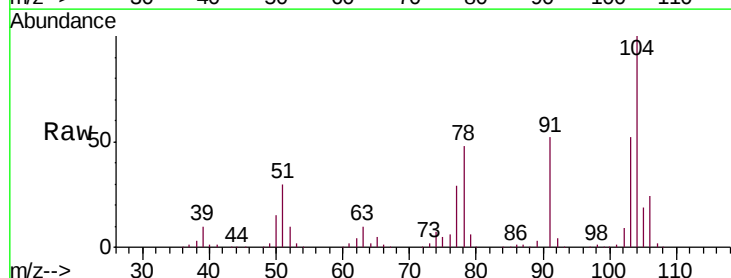
Acq: 01 Feb 2020 02:50

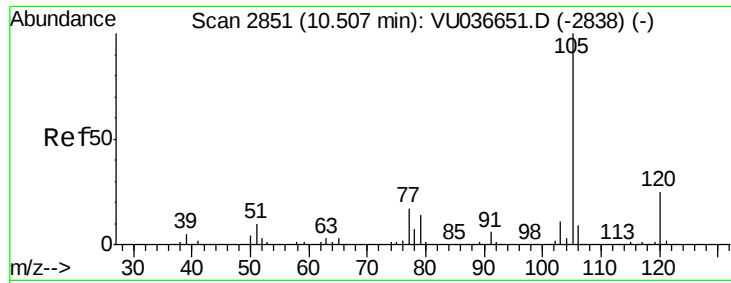
Tgt Ion:104 Resp: 329656

Ion Ratio Lower Upper

104 100

78 48.3 33.1 61.5





#56

Isopropylbenzene

Concen: 51.973 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

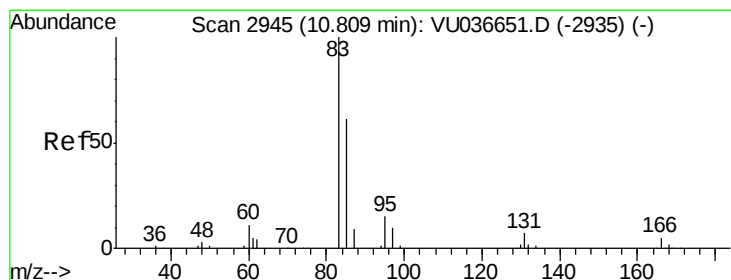
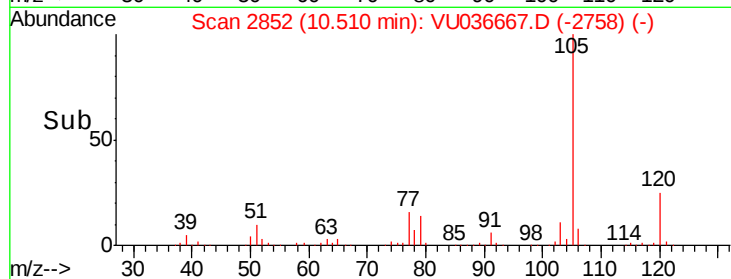
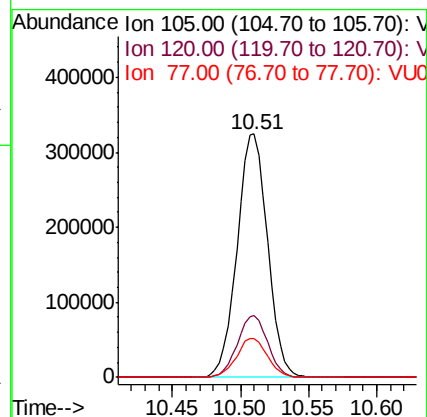
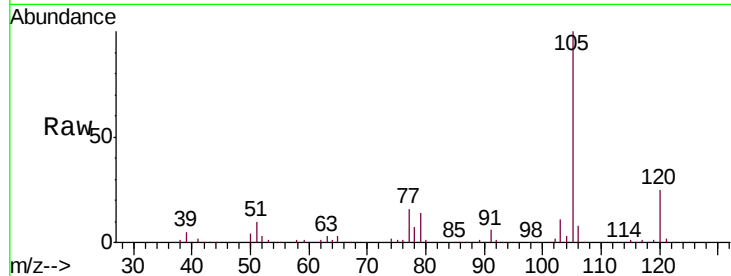
Tgt Ion: 105 Resp: 501579

Ion Ratio Lower Upper

105 100

120 25.3 20.2 30.4

77 16.2 13.0 19.6



#58

1,1,2,2-Tetrachloroethane

Concen: 51.408 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

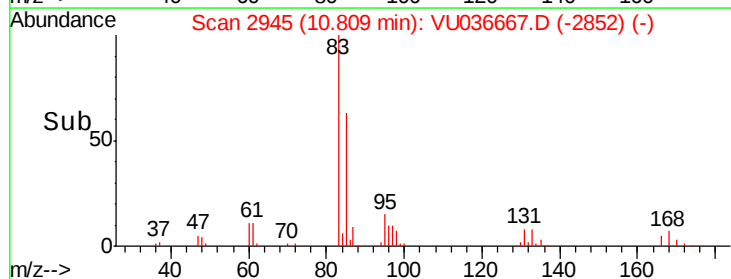
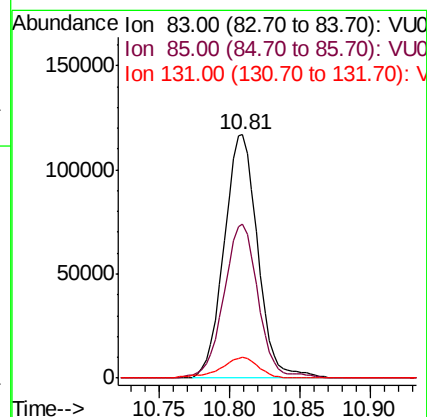
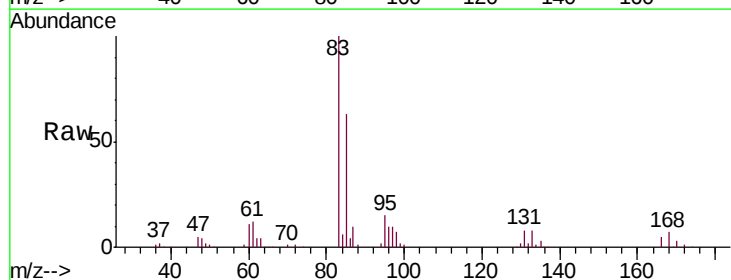
Tgt Ion: 83 Resp: 194124

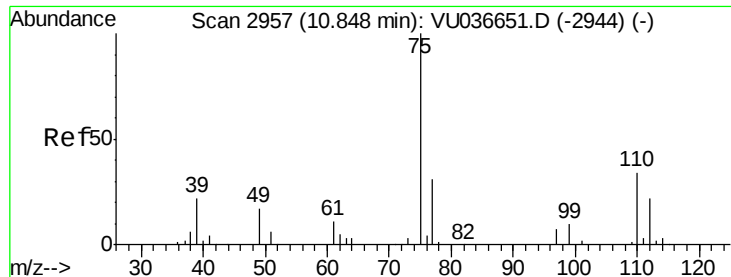
Ion Ratio Lower Upper

83 100

85 63.1 44.3 82.3

131 8.5 6.8 10.2





#59

1,2,3-Trichloropropane

Concen: 51.139 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

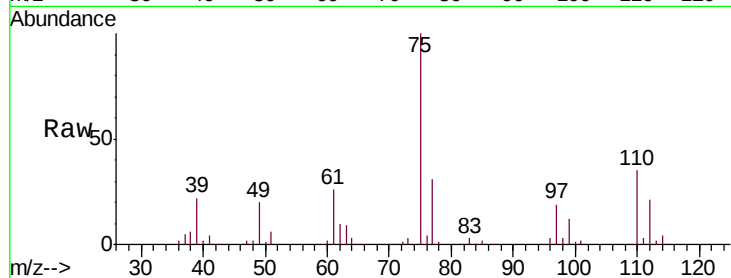
VSTD05052

Tgt Ion: 75 Resp: 157483

Ion Ratio Lower Upper

75 100

77 31.9 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VU036667.D (-2335) (-)

Ion 77.00 (76.70 to 77.70): VU036667.D (-2335) (-)

10.85

100000

80000

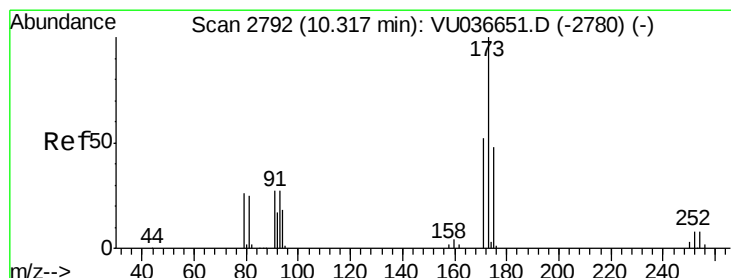
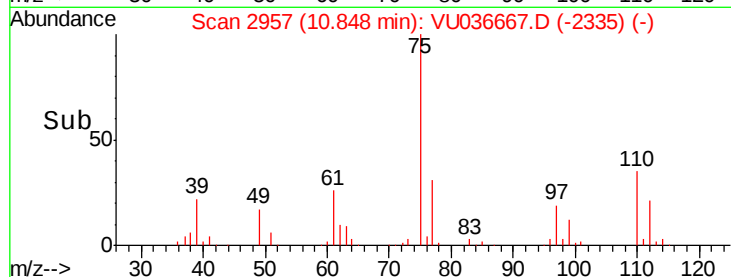
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 51.770 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

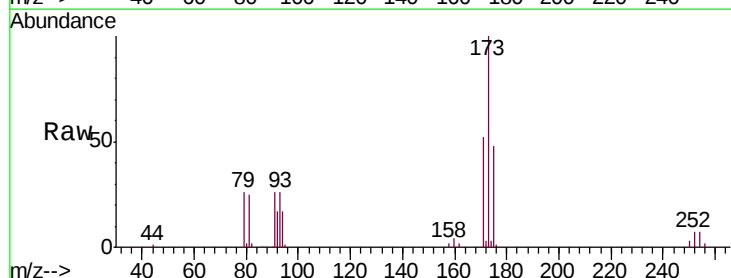
Tgt Ion: 173 Resp: 77126

Ion Ratio Lower Upper

173 100

175 48.1 38.6 58.0

254 7.0 6.0 9.0



Abundance Ion 173.00 (172.70 to 173.70): VU036667.D (-2699) (-)

Ion 175.00 (174.70 to 175.70): VU036667.D (-2699) (-)

Ion 254.00 (253.70 to 254.70): VU036667.D (-2699) (-)

10.32

60000

50000

40000

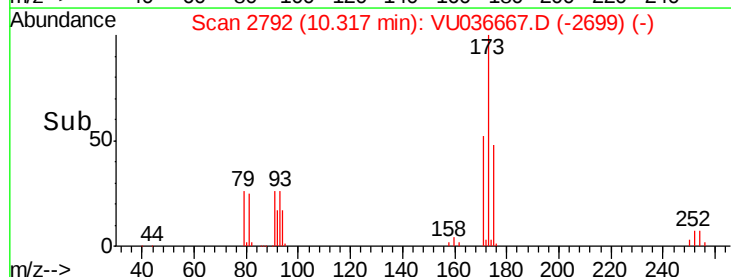
30000

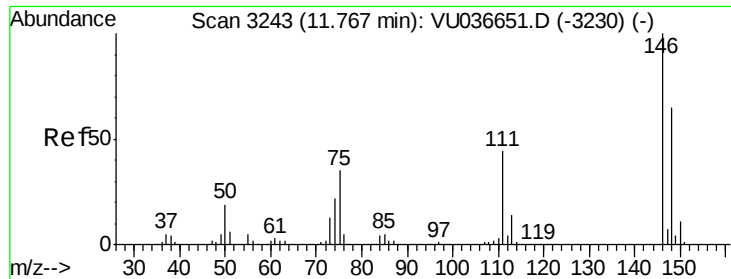
20000

10000

0

Time-->

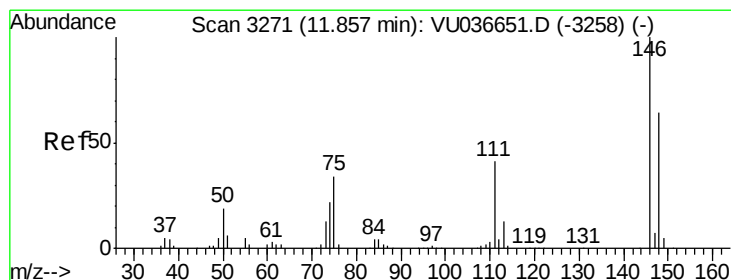
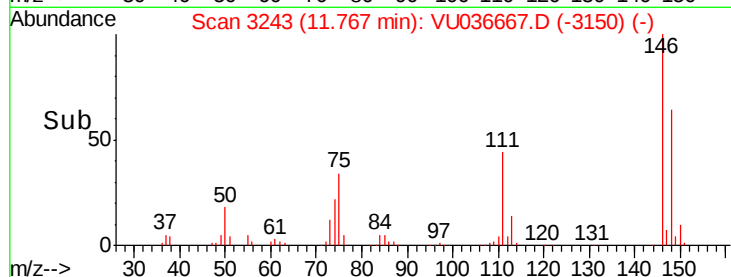
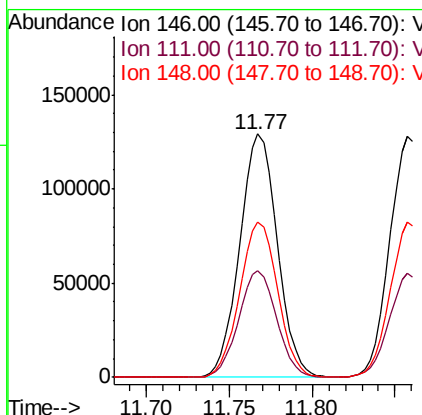
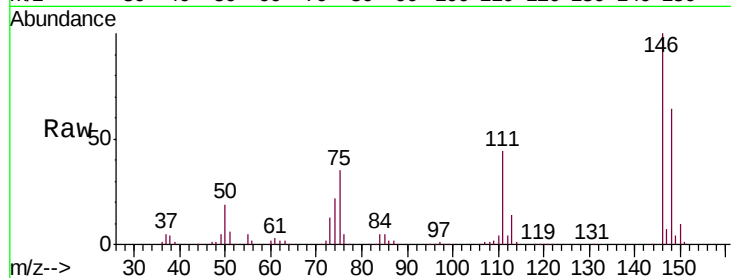




#62
 1,3-Dichlorobenzene
 Concen: 51.524 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. -0.00 min
 Lab File: VU036667.D
 Acq: 01 Feb 2020 02:50

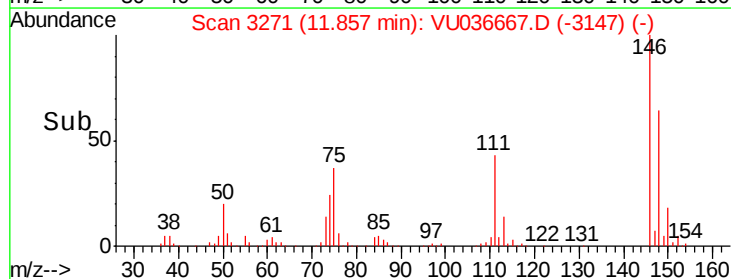
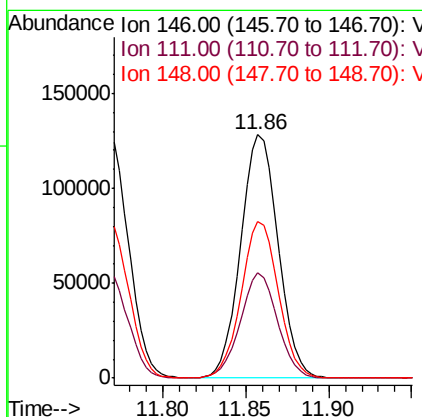
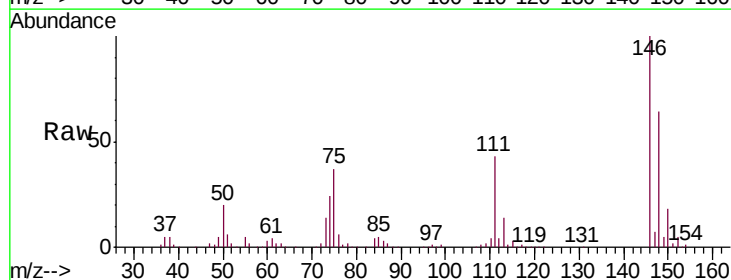
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

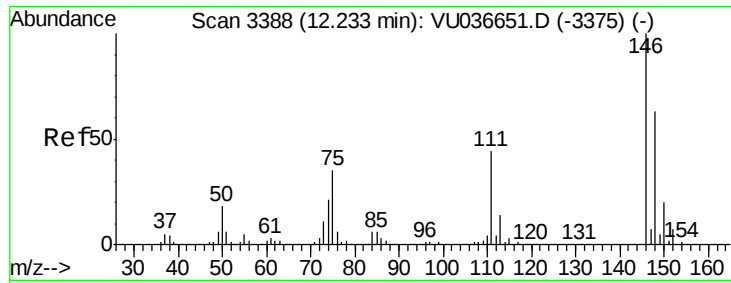
Tgt Ion:146 Resp: 204241
 Ion Ratio Lower Upper
 146 100
 111 43.7 30.6 56.8
 148 63.7 45.1 83.9



#63
 1,4-Dichlorobenzene
 Concen: 51.209 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.00 min
 Lab File: VU036667.D
 Acq: 01 Feb 2020 02:50

Tgt Ion:146 Resp: 201772
 Ion Ratio Lower Upper
 146 100
 111 43.0 29.0 53.8
 148 64.2 45.1 83.7





#65

1,2-Dichlorobenzene

Concen: 52.745 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

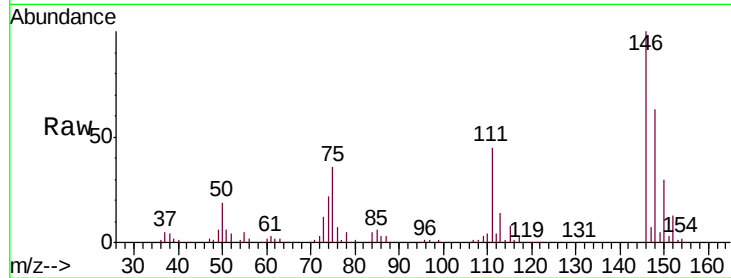
Tgt Ion:146 Resp: 210336

Ion Ratio Lower Upper

146 100

111 44.9 35.6 53.4

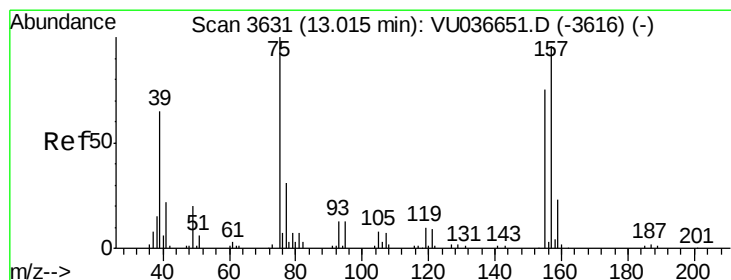
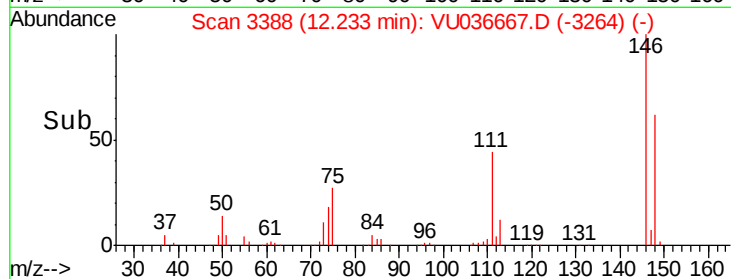
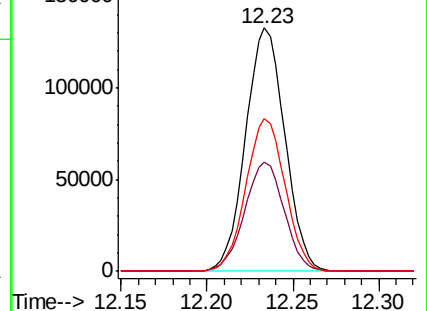
148 62.7 50.6 76.0



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



#66

1,2-Dibromo-3-chloropropane

Concen: 53.699 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

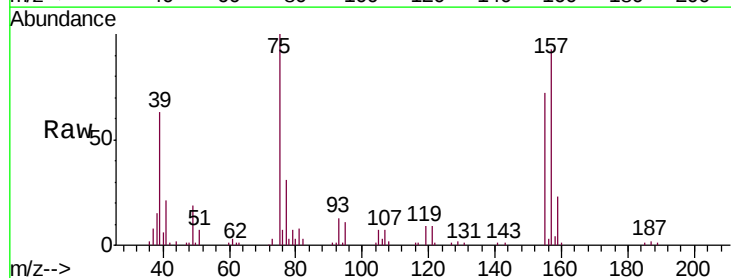
Tgt Ion: 75 Resp: 44530

Ion Ratio Lower Upper

75 100

155 72.2 60.2 90.4

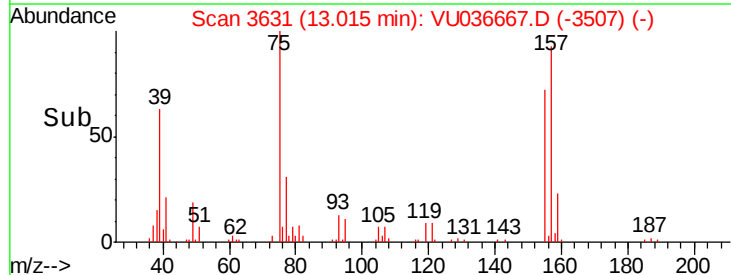
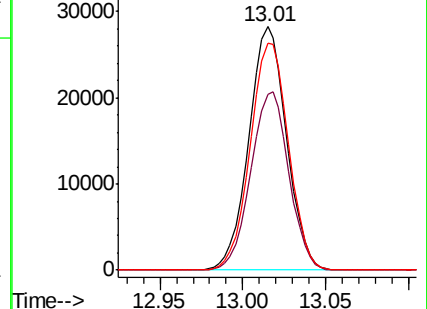
157 93.4 76.7 115.1

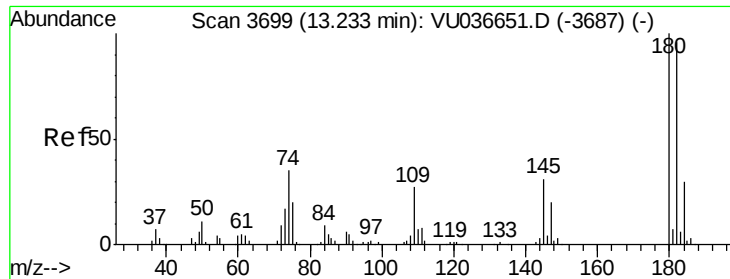


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

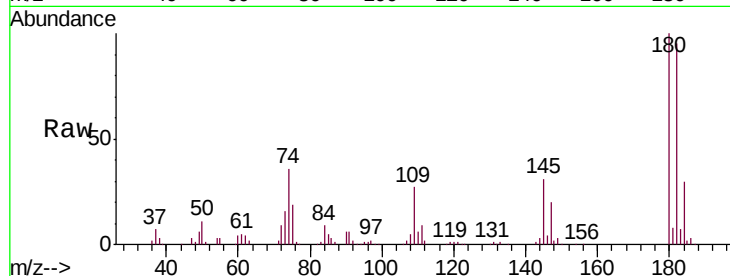




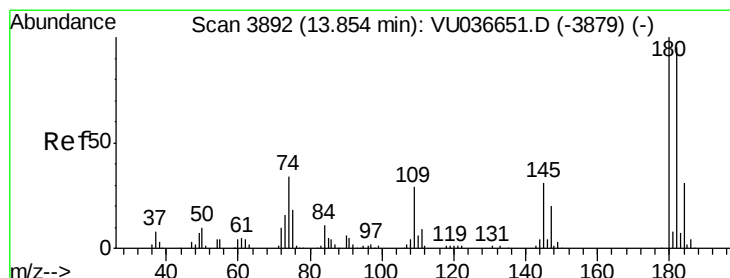
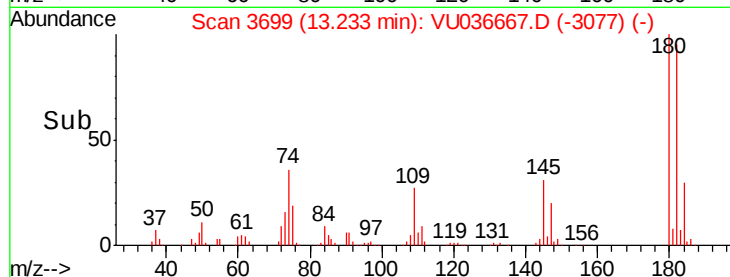
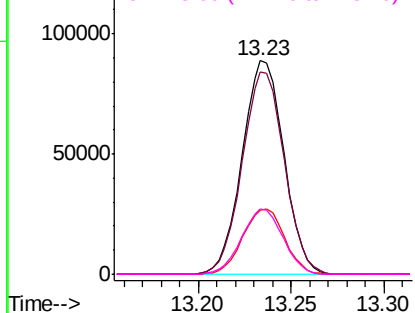
#67
 1,3,5-Trichlorobenzene
 Concen: 52.311 ug/L
 RT: 13.23 min Scan# 3699
 Delta R.T. 0.00 min
 Lab File: VU036667.D
 Acq: 01 Feb 2020 02:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:180 Resp: 139594
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.2 114.4
 184 30.5 24.0 36.0
 145 30.4 24.7 37.1

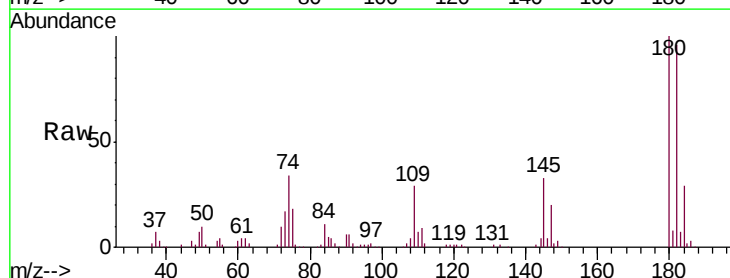


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

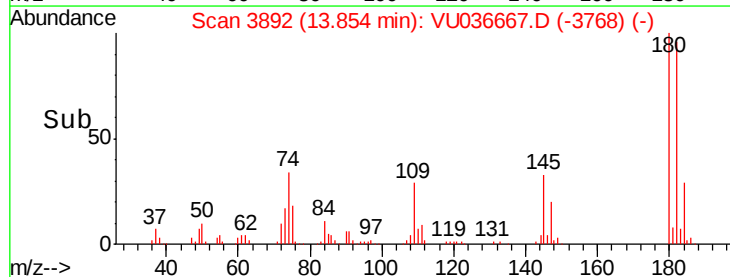
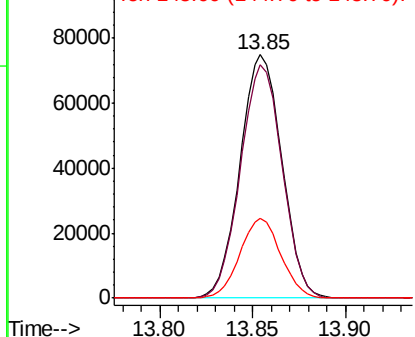


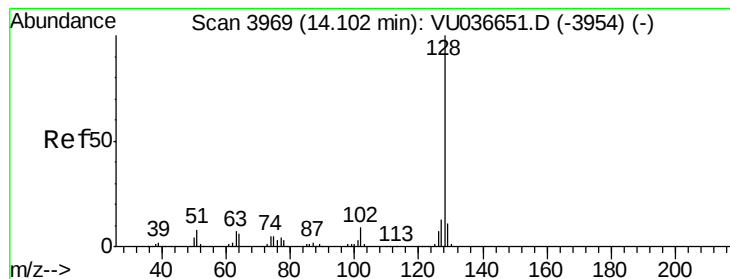
#68
 1,2,4-trichlorobenzene
 Concen: 52.910 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. -0.00 min
 Lab File: VU036667.D
 Acq: 01 Feb 2020 02:50

Tgt Ion:180 Resp: 117406
 Ion Ratio Lower Upper
 180 100
 182 95.7 75.2 112.8
 145 31.9 25.6 38.4



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: 52.819 ug/L

RT: 14.10 min Scan# 3968

Delta R.T. -0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

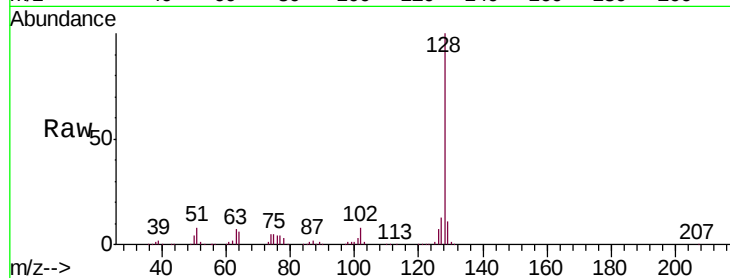
Tgt Ion:128 Resp: 449779

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

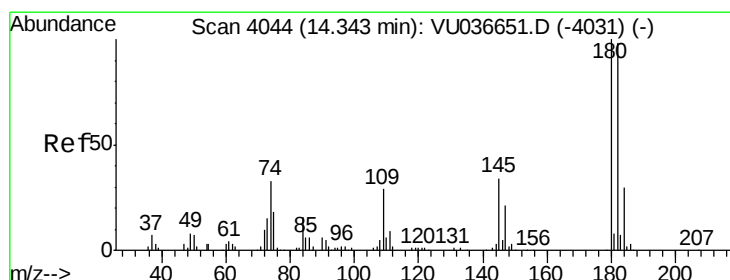
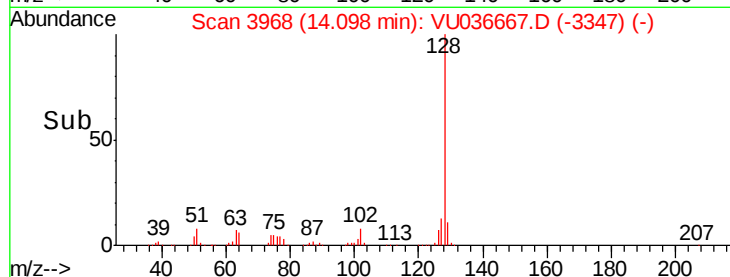
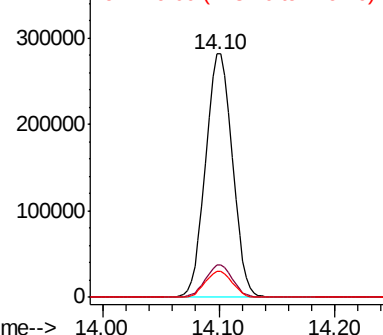
129 10.7 8.5 12.7



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: 52.768 ug/L

RT: 14.34 min Scan# 4044

Delta R.T. 0.00 min

Lab File: VU036667.D

Acq: 01 Feb 2020 02:50

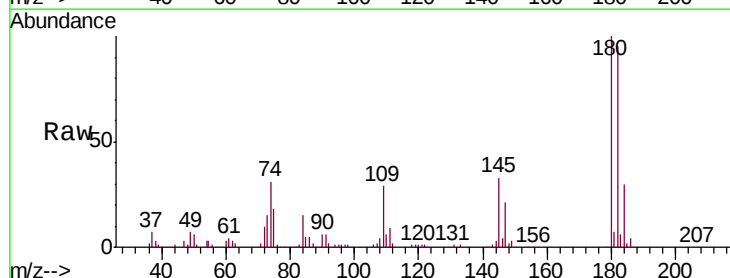
Tgt Ion:180 Resp: 121175

Ion Ratio Lower Upper

180 100

182 95.5 77.4 116.0

145 32.7 26.5 39.7



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

