

Data File : VU036154.D
Acq On : 12 Dec 2019 16:44
Operator : JC/MD
Sample : VSTD02004
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD02004

Quant Time: Dec 13 01:25:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 13 01:21:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	324901	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	331056	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	183977	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	623042	20.57	ug/L	0.00
7) Chloroethane-d5	1.93	69	547604	17.92	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	850013	16.30	ug/L	0.00
20) 2-Butanone-d5	4.69	46	1161914	226.66	ug/L	0.00
24) Chloroform-d	5.11	84	915065	19.12	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	452837	18.33	ug/L	0.00
32) Benzene-d6	5.77	84	1830829	20.99	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	557790	21.15	ug/L	0.00
41) Toluene-d8	7.93	98	1766933	21.86	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	242977	22.04	ug/L	0.00
46) 2-Hexanone-d5	8.67	63	1053347	264.91	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	489248	19.90	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	698457	19.33	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	671447	20.255 ug/L	99
3) Chloromethane	1.54	50	763357	22.303 ug/L	99
5) Vinyl chloride	1.62	62	824768	23.249 ug/L	97
6) Bromomethane	1.87	94	509992	19.155 ug/L	95
8) Chloroethane	1.95	64	503212	19.529 ug/L	98
9) Trichlorofluoromethane	2.16	101	999522	17.534 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	488706	15.649 ug/L	99
12) 1,1-Dichloroethene	2.60	96	468399	16.774 ug/L	94
13) Acetone	2.68	43	763973	123.681 ug/L	99
14) Carbon disulfide	2.82	76	1545802	18.742 ug/L	100
15) Methyl Acetate	2.99	43	181639	18.948 ug/L	100
16) Methylene chloride	3.08	84	526130	15.633 ug/L	99
17) Methyl tert-butyl Ether	3.41	73	1112906	22.188 ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	498848	20.102 ug/L	100
19) 1,1-Dichloroethane	3.92	63	890925	19.873 ug/L	100
21) 2-Butanone	4.77	43	1265260	195.507 ug/L	96
22) cis-1,2-Dichloroethene	4.72	96	548724	21.189 ug/L	95
23) Bromochloromethane	5.02	128	250832	18.808 ug/L	96
25) Chloroform	5.13	83	928372	18.803 ug/L	97
27) 1,2-Dichloroethane	5.84	62	568001	19.423 ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	793585	20.293 ug/L	98
30) Cyclohexane	5.43	56	822390	26.307 ug/L	99
31) Carbon tetrachloride	5.57	117	713666	20.159 ug/L	100
33) Benzene	5.82	78	2097494	21.878 ug/L	100
34) Trichloroethene	6.58	95	528471	20.880 ug/L	98
35) Methylcyclohexane	6.80	83	901364	26.252 ug/L	97
37) 1,2-Dichloropropane	6.83	63	521650	21.574 ug/L	98
38) Bromodichloromethane	7.14	83	657659	20.454 ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	794234	24.315 ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	2989835	236.701 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	2323266	22.618	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	648499	22.962	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	380278	20.190	ug/L	97
47) Tetrachloroethene	8.58	164	459248	19.364	ug/L	97
48) 2-Hexanone	8.73	43	2226925	252.313	ug/L	99
49) Dibromochloromethane	8.84	129	481528	19.988	ug/L	99
50) 1,2-Dibromoethane	8.96	107	370715	20.810	ug/L	99
51) Chlorobenzene	9.48	112	1436320	20.669	ug/L	99
52) Ethylbenzene	9.60	91	2494157	24.014	ug/L	99
53) m,p-Xylene	9.72	106	980412	23.560	ug/L	100
54) o-Xylene	10.13	106	936701	23.556	ug/L	99
55) Styrene	10.14	104	1633355	23.834	ug/L	97
56) Isopropylbenzene	10.51	105	2464210	23.467	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	491119	19.682	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	354645	20.599	ug/L	98
61) Bromoform	10.32	173	288746	15.514	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	1200644	19.417	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	1198760	19.822	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	1139618	18.710	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	69591	18.392	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	881307	21.770	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	623668	29.131	ug/L	99
69) Naphthalene	14.11	128	794770	37.738	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	579239	27.655	ug/L	99

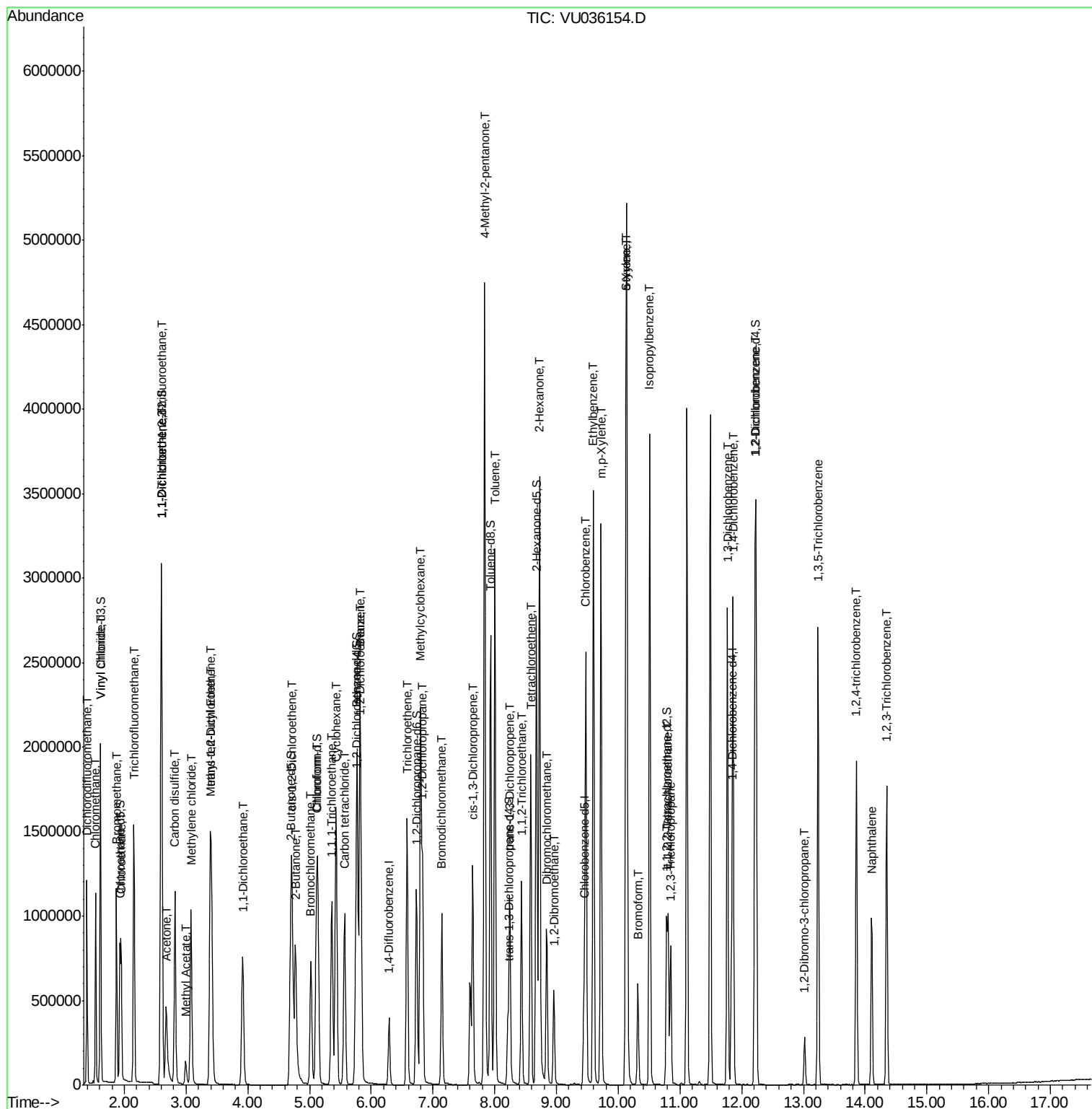
(#) = qualifier out of range (m) = manual integration (+) = signals summed

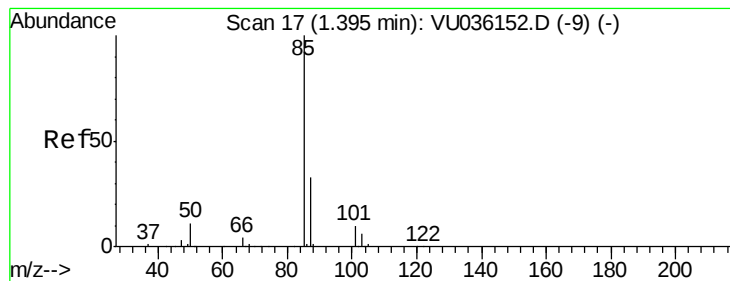
Data File : VU036154.D

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#2

Dichlorodifluoromethane

Concen: 20.255 ug/L

RT: 1.40 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

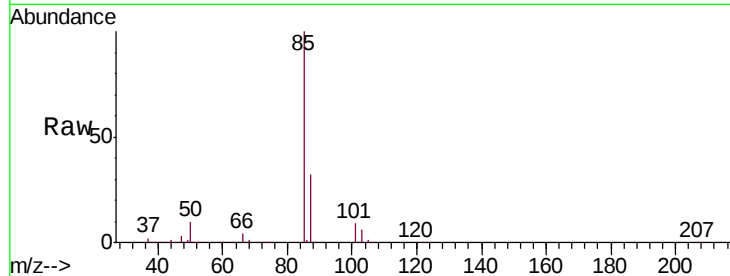
VSTD02004

Tgt Ion: 85 Resp: 671447

Ion Ratio Lower Upper

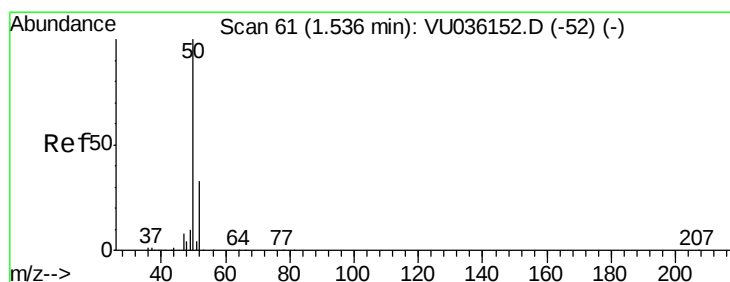
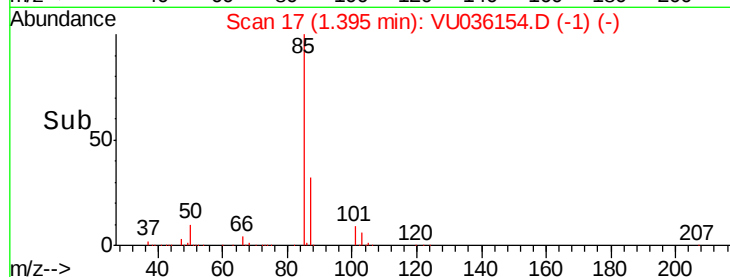
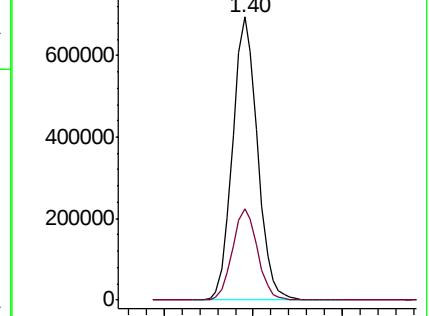
85 100

87 32.4 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU036154.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU036154.D (-1) (-)



#3

Chloromethane

Concen: 22.303 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036154.D

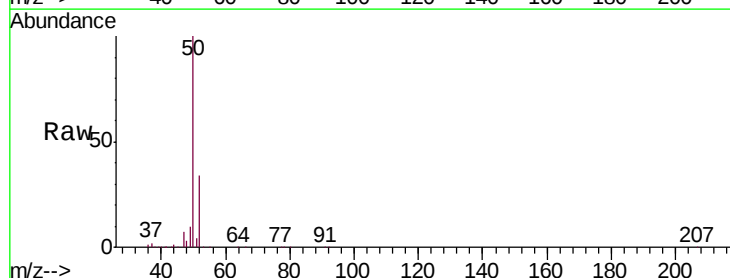
Acq: 12 Dec 2019 16:44

Tgt Ion: 50 Resp: 763357

Ion Ratio Lower Upper

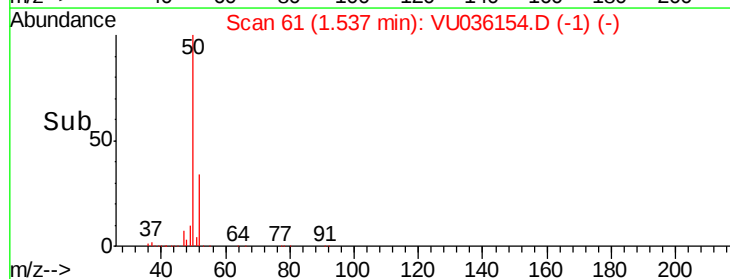
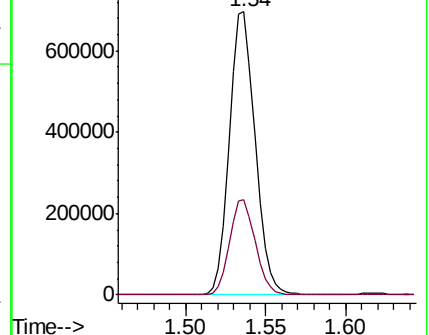
50 100

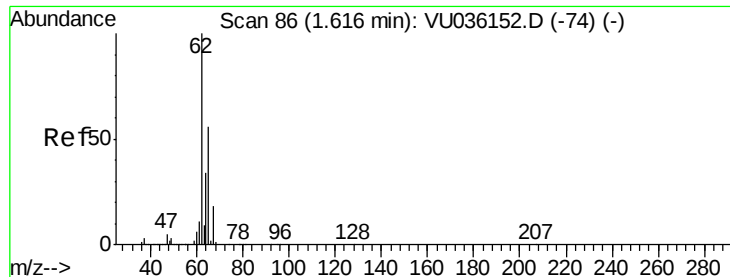
52 33.6 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU036154.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU036154.D (-1) (-)





#5

Vinyl chloride

Concen: 23.249 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

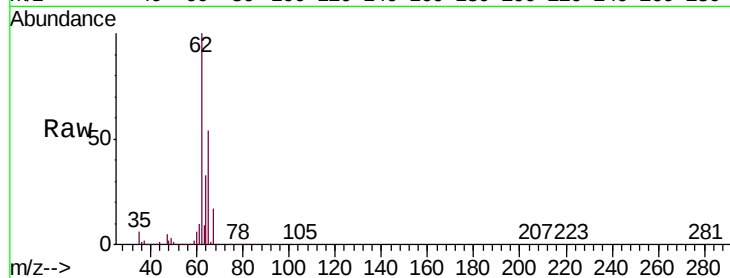
VSTD02004

Tgt Ion: 62 Resp: 824768

Ion Ratio Lower Upper

62 100

64 32.8 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VU036154.D (-74) (-)

Ion 64.10 (63.80 to 64.80): VU036154.D (-74) (-)

1.62

800000

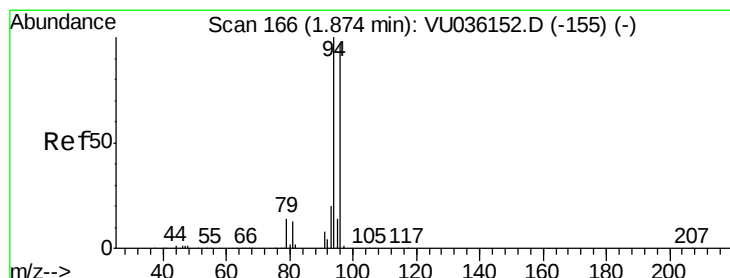
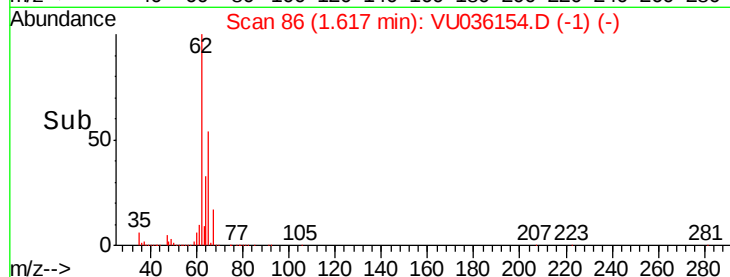
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 19.155 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036154.D

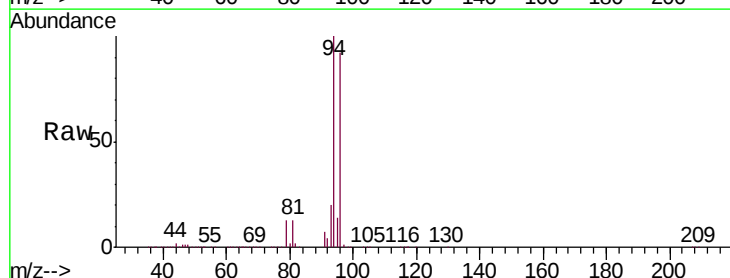
Acq: 12 Dec 2019 16:44

Tgt Ion: 94 Resp: 509992

Ion Ratio Lower Upper

94 100

96 92.3 67.7 125.7



Abundance Ion 94.00 (93.70 to 94.70): VU036154.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU036154.D (-155) (-)

1.87

500000

400000

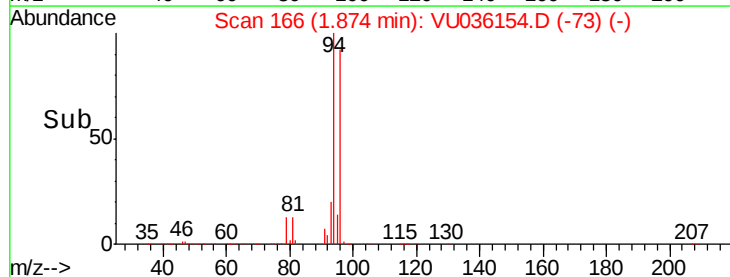
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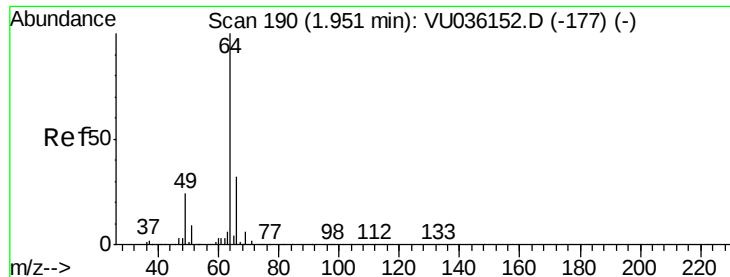
200000

100000

0

Time-->





#8

Chloroethane

Concen: 19.529 ug/L

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

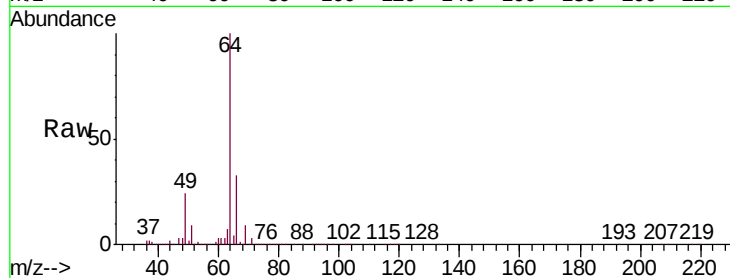
VSTD02004

Tgt Ion: 64 Resp: 503212

Ion Ratio Lower Upper

64 100

66 32.6 22.0 41.0



Abundance Ion 64.10 (63.80 to 64.80): VU036152.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU036154.D (-97) (-)

1.95

400000

300000

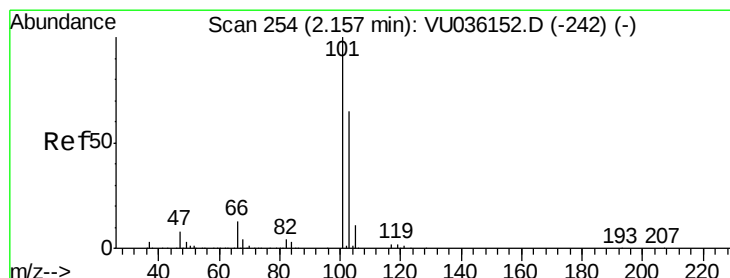
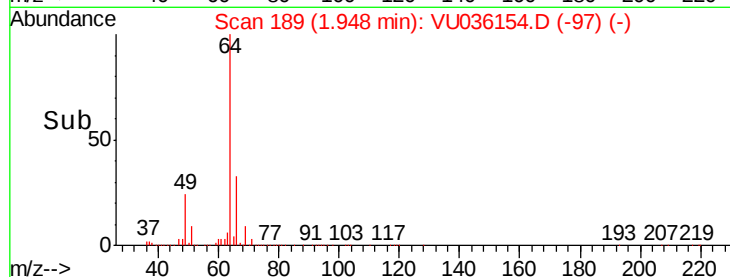
200000

100000

0

1.90 1.95 2.00 2.05

Time-->



#9

Trichlorofluoromethane

Concen: 17.534 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU036154.D

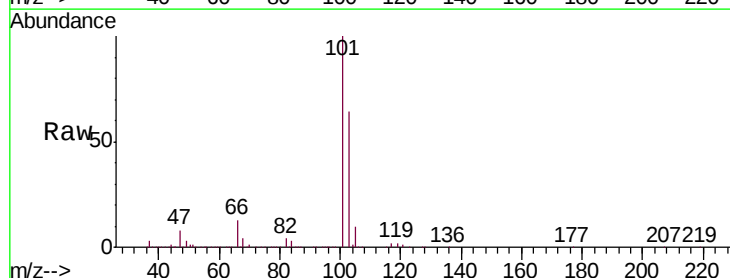
Acq: 12 Dec 2019 16:44

Tgt Ion: 101 Resp: 999522

Ion Ratio Lower Upper

101 100

103 64.1 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): VU036152.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU036154.D (-161) (-)

2.16

800000

600000

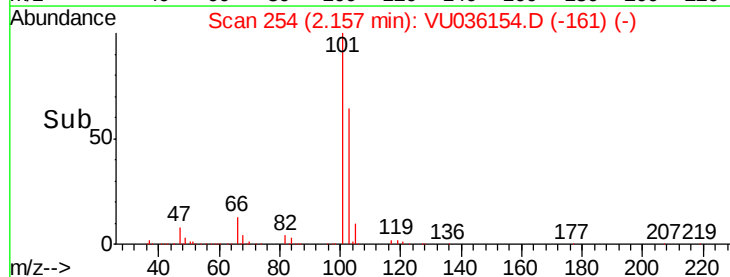
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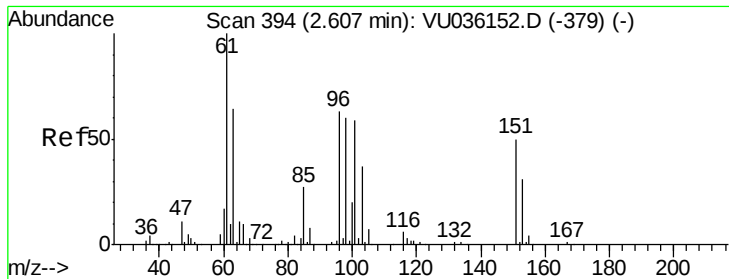
200000

0

2.05 2.10 2.15 2.20 2.25

Time-->





#10

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

Concen: 15.649 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

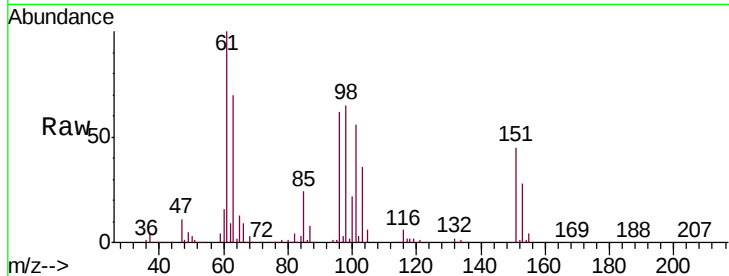
Tgt Ion: 101 Resp: 488706

Ion Ratio Lower Upper

101 100

85 42.1 34.2 51.4

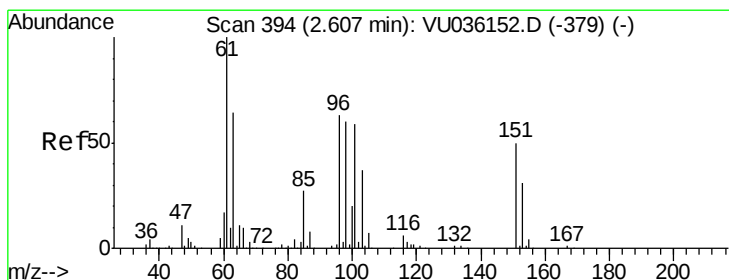
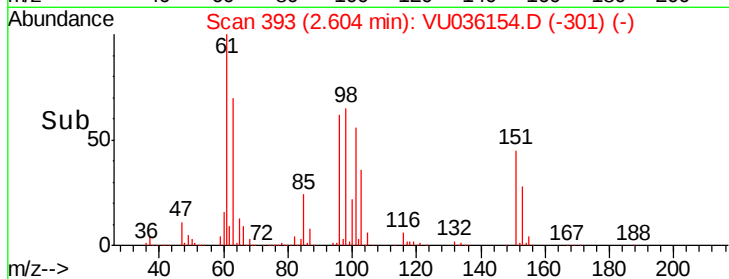
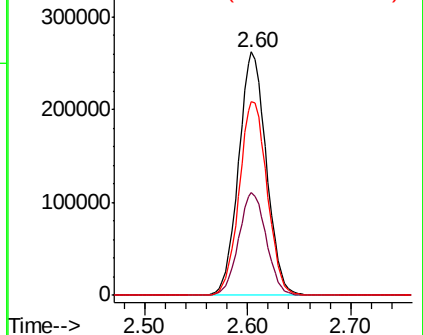
151 80.4 63.4 95.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 16.774 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

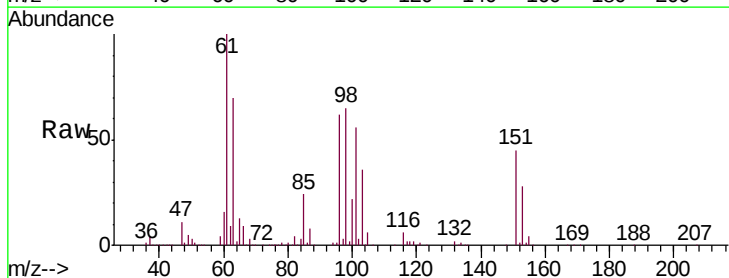
Tgt Ion: 96 Resp: 468399

Ion Ratio Lower Upper

96 100

61 162.3 110.6 205.4

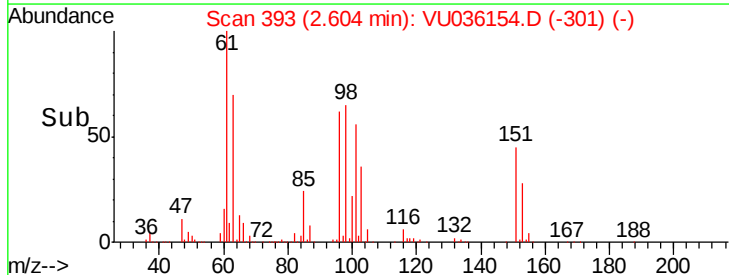
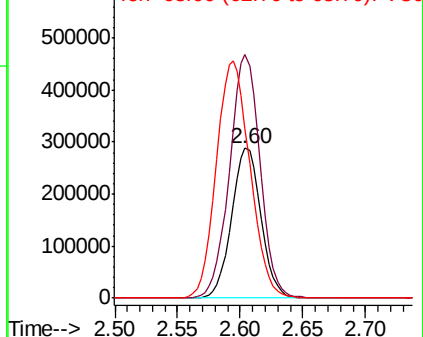
63 113.0 71.6 133.0

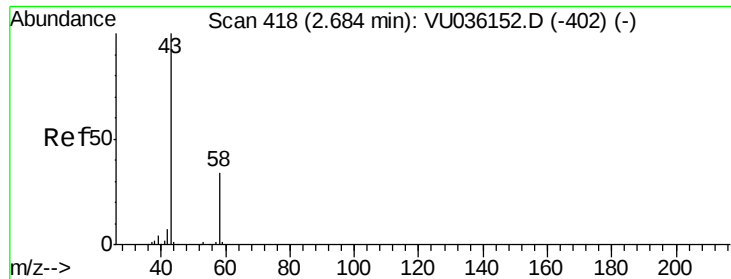


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 123.681 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.01 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

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ClientSampleId :

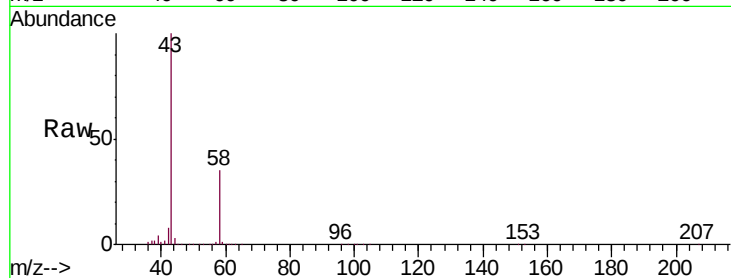
VSTD02004

Tgt Ion: 43 Resp: 763973

Ion Ratio Lower Upper

43 100

58 34.5 0.0 70.0



Abundance Ion 43.05 (42.75 to 43.75): VU036152.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU036152.D (-402) (-)

2.68

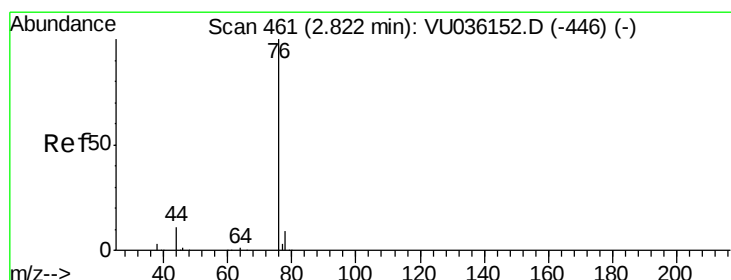
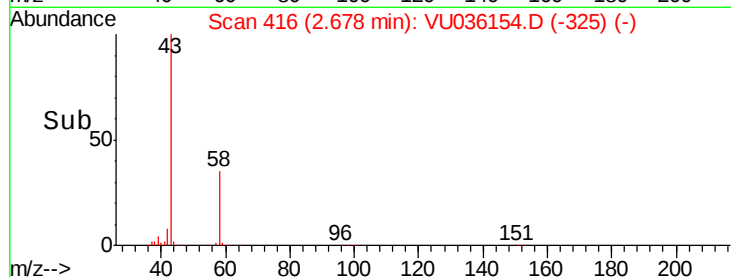
300000

200000

100000

0

Time-->



#14

Carbon disulfide

Concen: 18.742 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU036154.D

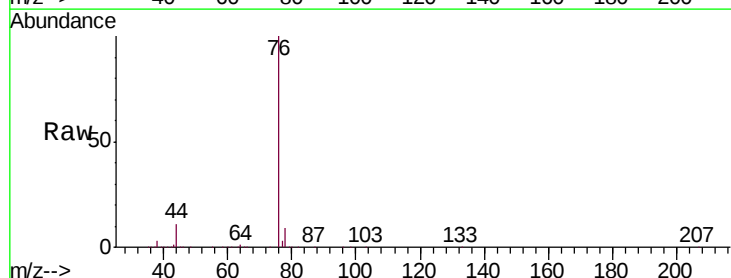
Acq: 12 Dec 2019 16:44

Tgt Ion: 76 Resp: 1545802

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU036152.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU036152.D (-446) (-)

2.82

1000000

800000

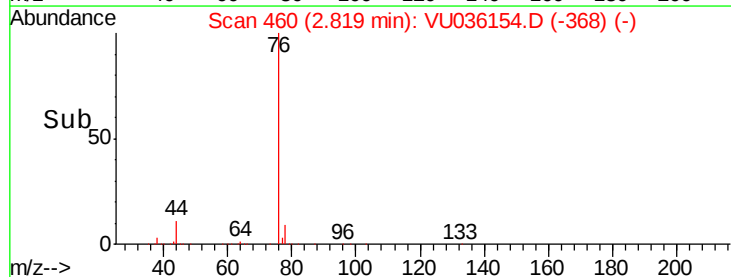
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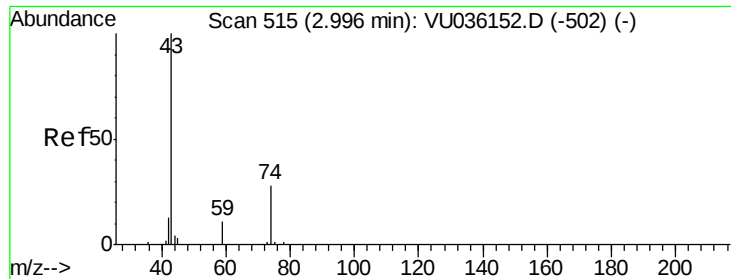
400000

200000

0

Time-->

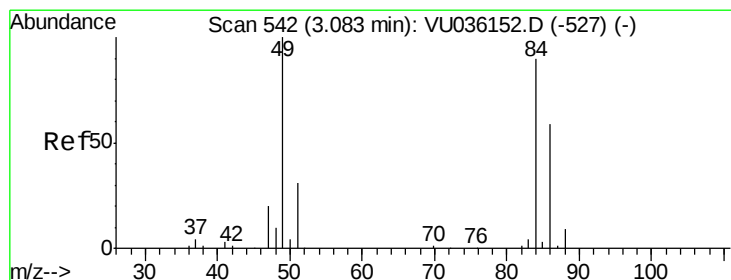
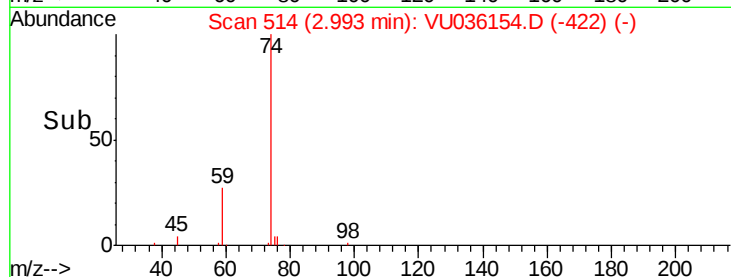
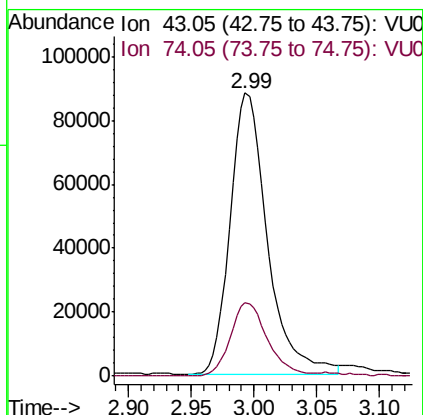
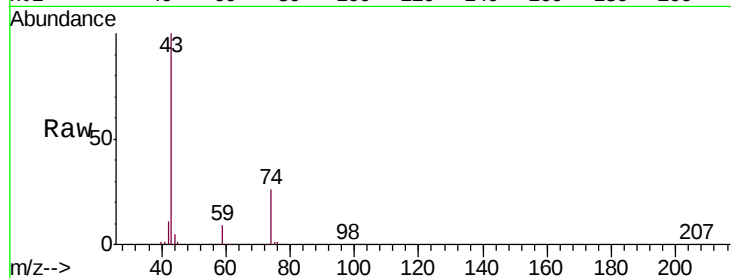




#15
Methyl Acetate
Concen: 18.948 ug/L
RT: 2.99 min Scan# 514
Delta R.T. -0.00 min
Lab File: VU036154.D
Acq: 12 Dec 2019 16:44

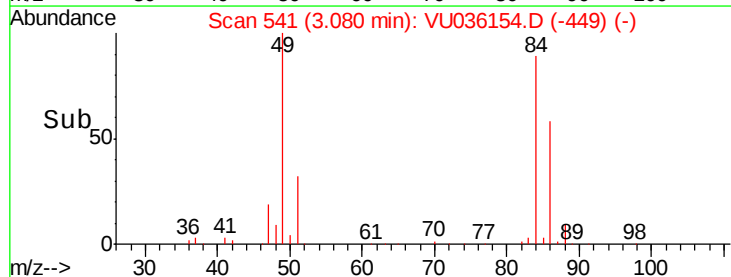
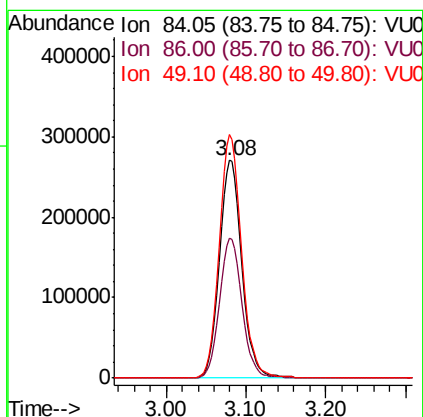
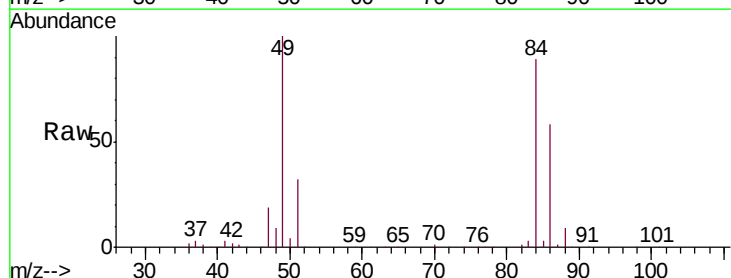
Instrument :
MSVOA_U
ClientSampleId :
VSTD02004

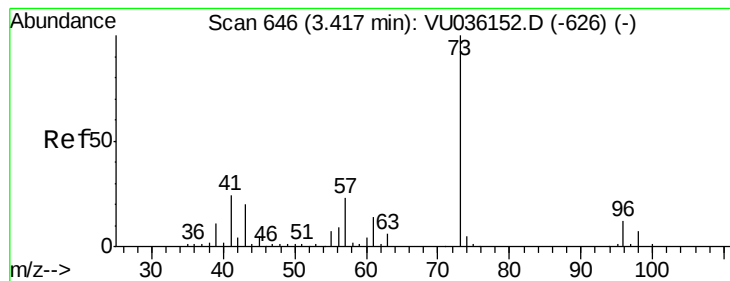
Tgt Ion: 43 Resp: 181639
Ion Ratio Lower Upper
43 100
74 25.9 20.6 30.8



#16
Methylene chloride
Concen: 15.633 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036154.D
Acq: 12 Dec 2019 16:44

Tgt Ion: 84 Resp: 526130
Ion Ratio Lower Upper
84 100
86 64.5 46.1 85.5
49 111.9 77.7 144.3



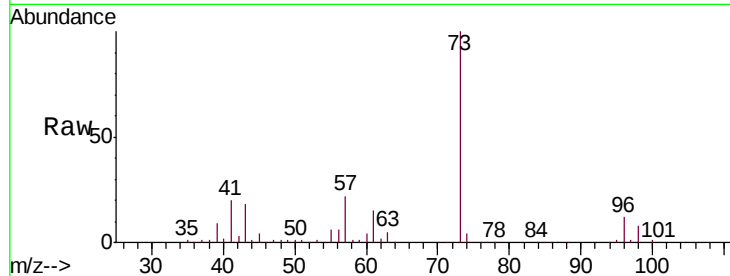


#17

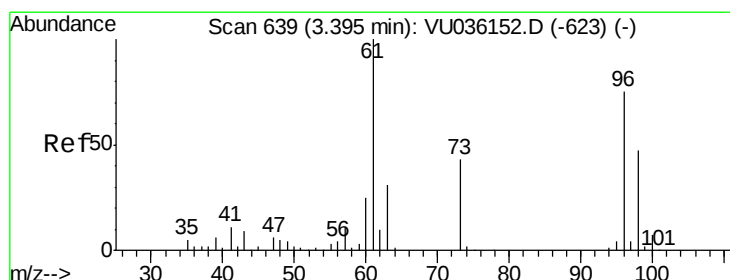
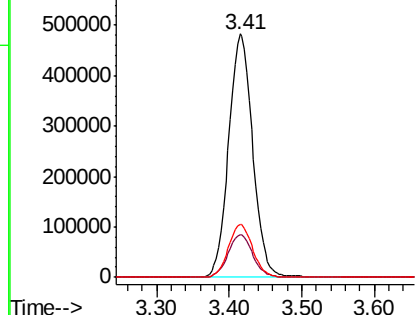
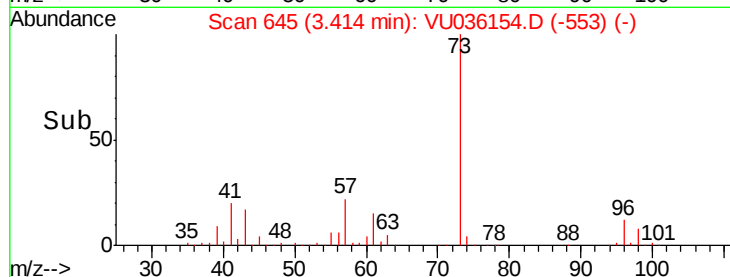
Methyl tert-butyl Ether
 Concen: 22.188 ug/L
 RT: 3.41 min Scan# 645
 Delta R.T. -0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

Tgt Ion: 73 Resp: 1112906
 Ion Ratio Lower Upper
 73 100
 43 17.9 15.3 22.9
 57 22.0 18.3 27.5



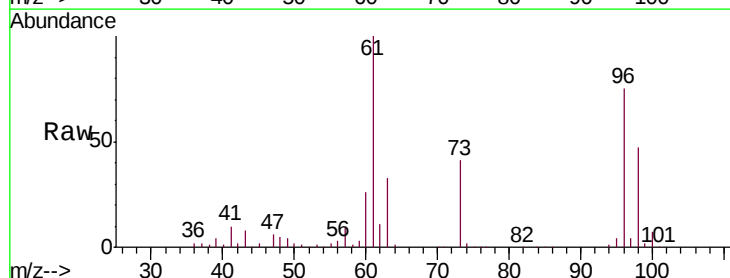
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



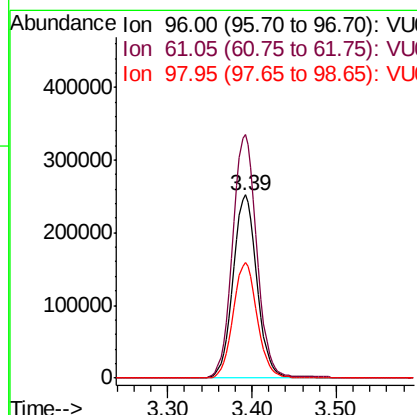
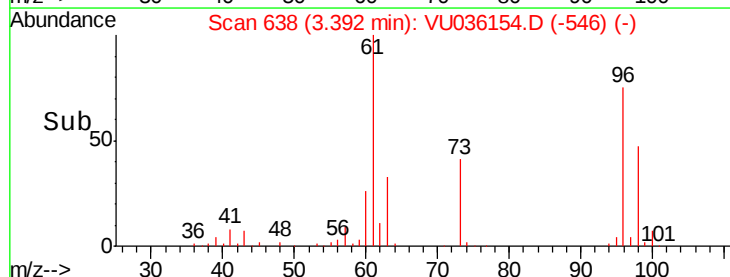
#18

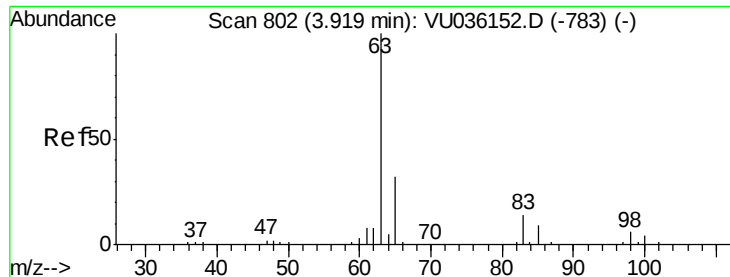
trans-1,2-Dichloroethene
 Concen: 20.102 ug/L
 RT: 3.39 min Scan# 638
 Delta R.T. -0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Tgt Ion: 96 Resp: 498848
 Ion Ratio Lower Upper
 96 100
 61 133.1 93.2 173.2
 98 63.2 43.5 80.9



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

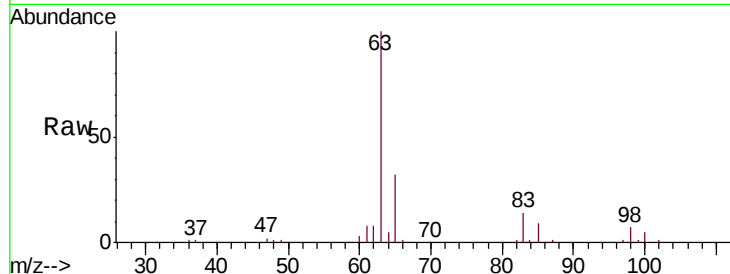




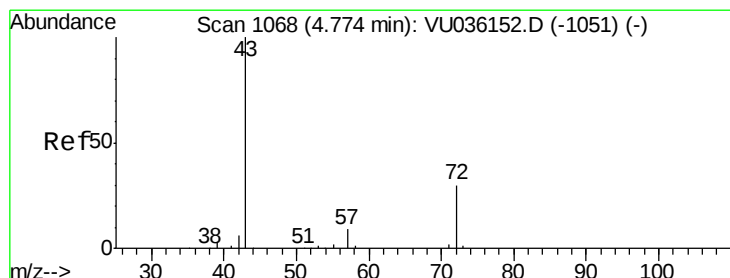
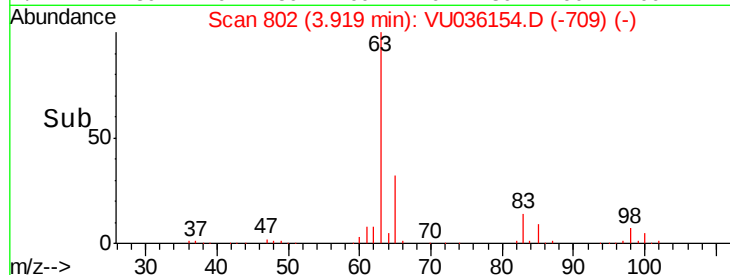
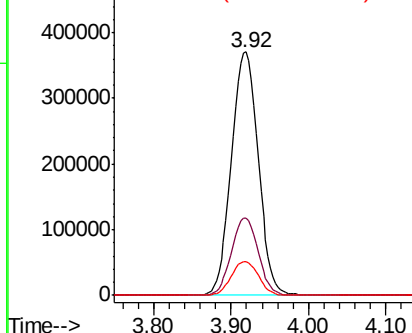
#19
 1,1-Dichloroethane
 Concen: 19.873 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

Tgt Ion: 63 Resp: 890925
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.2 41.2
 83 13.7 9.8 18.2

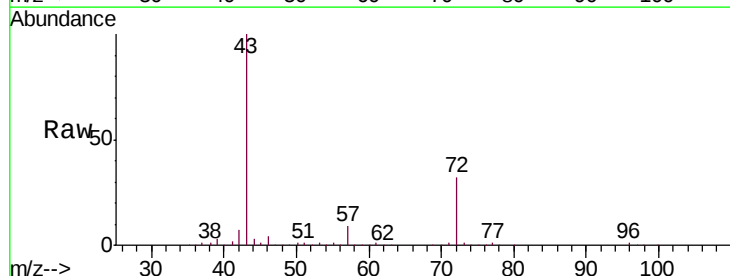


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

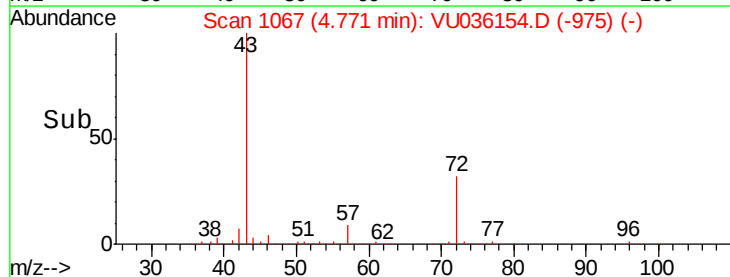
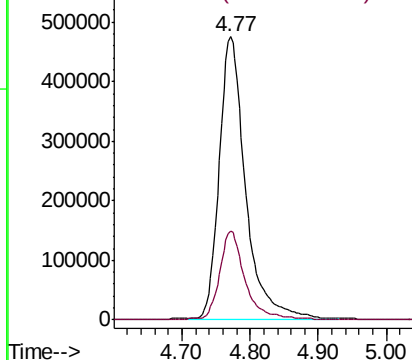


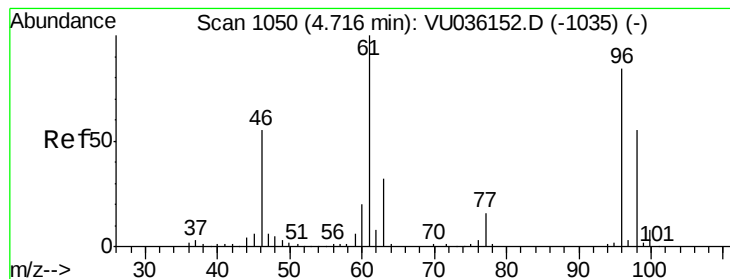
#21
 2-Butanone
 Concen: 195.507 ug/L
 RT: 4.77 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Tgt Ion: 43 Resp: 1265260
 Ion Ratio Lower Upper
 43 100
 72 31.1 14.4 43.2



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





#22

cis-1,2-Dichloroethene

Concen: 21.189 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

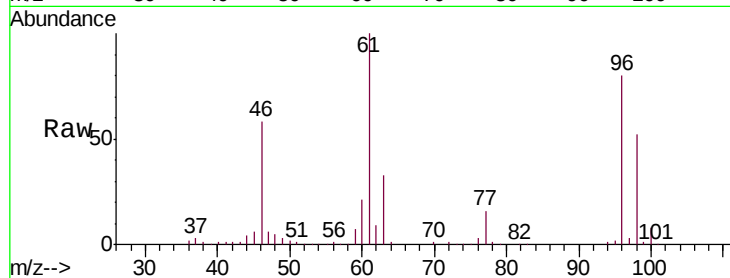
Tgt Ion: 96 Resp: 548724

Ion Ratio Lower Upper

96 100

61 124.9 83.8 155.6

68 0.0 0.0 0.0

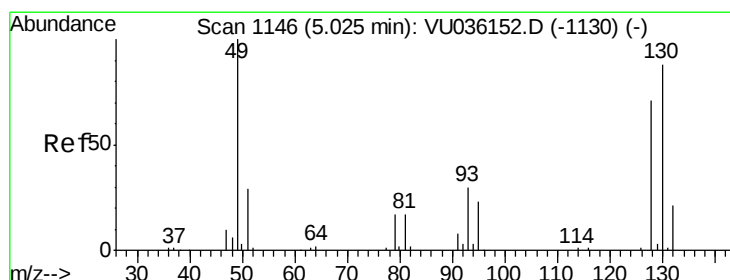
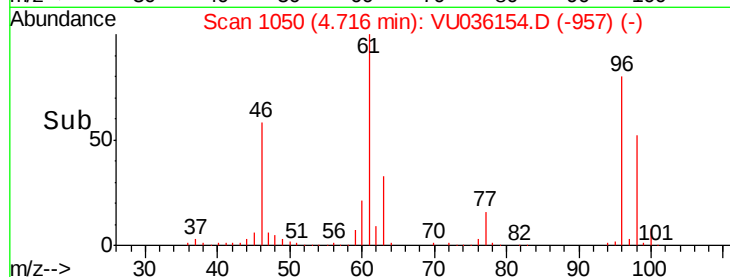
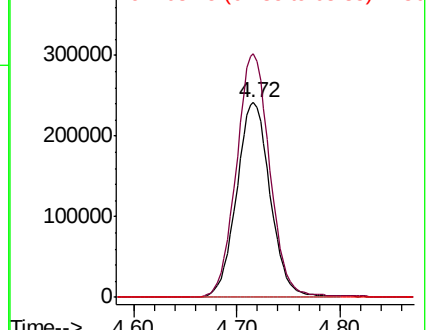


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 18.808 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Tgt Ion: 128 Resp: 250832

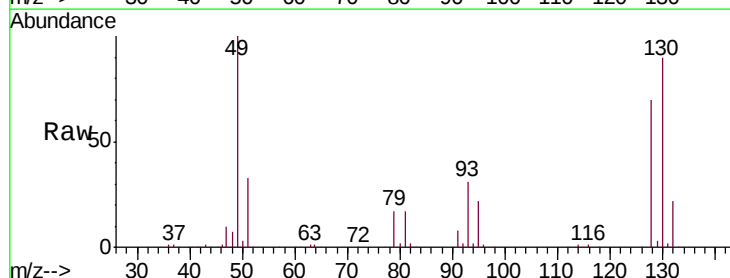
Ion Ratio Lower Upper

128 100

49 142.5 98.3 182.7

130 128.3 86.0 159.6

51 46.5 33.0 49.4



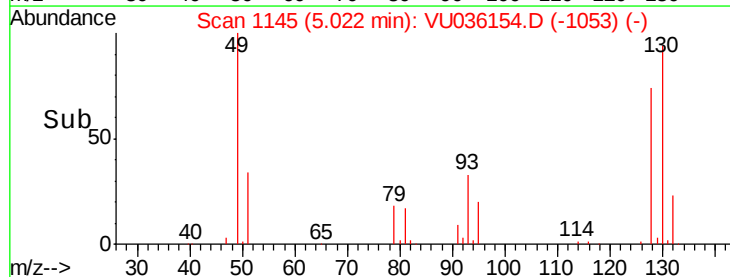
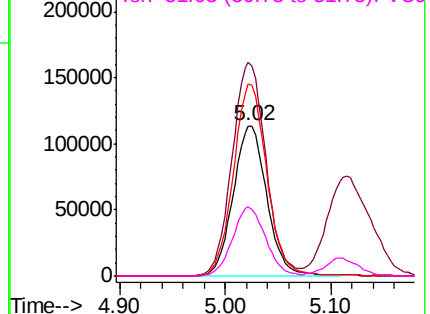
Abundance

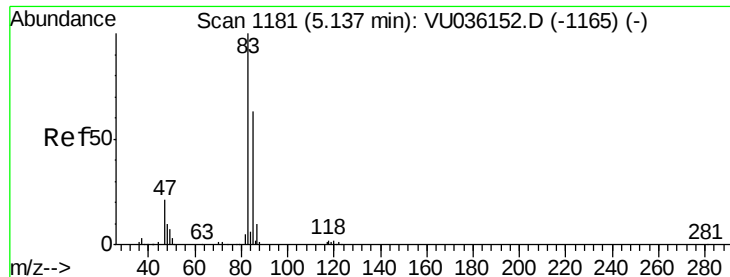
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0





#25

Chloroform

Concen: 18.803 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

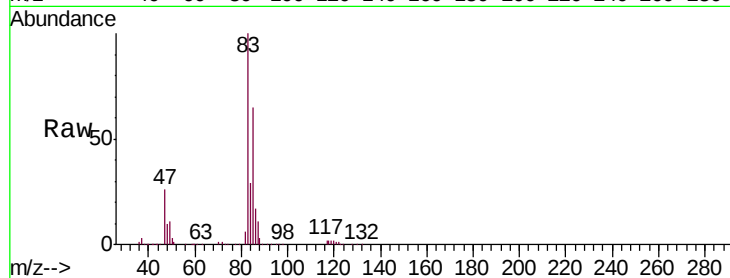
VSTD02004

Tgt Ion: 83 Resp: 928372

Ion Ratio Lower Upper

83 100

85 65.3 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU036152.D (-1165) (-)

Ion 85.00 (84.70 to 85.70): VU036154.D (-1088) (-)

5.13

400000

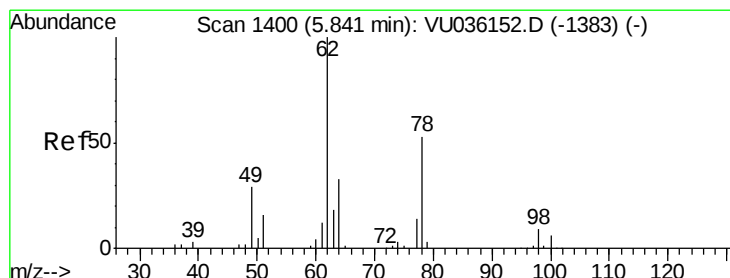
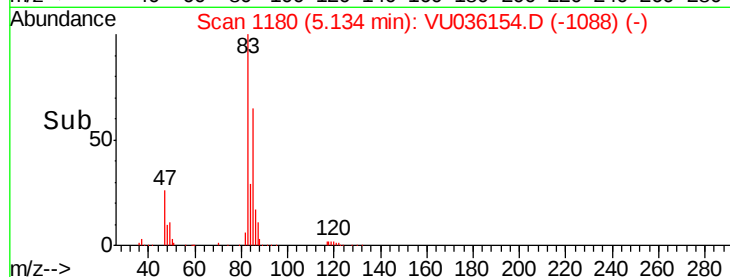
300000

200000

100000

0

Time-->



#27

1,2-Dichloroethane

Concen: 19.423 ug/L

RT: 5.84 min Scan# 1399

Delta R.T. -0.00 min

Lab File: VU036154.D

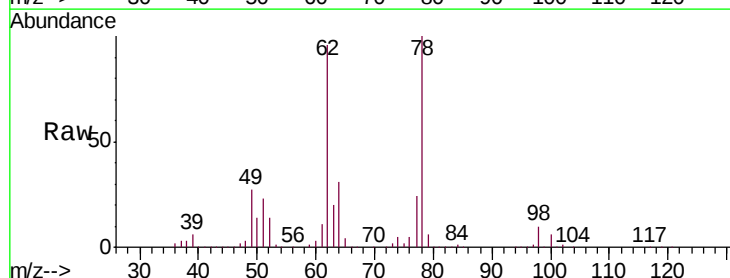
Acq: 12 Dec 2019 16:44

Tgt Ion: 62 Resp: 568001

Ion Ratio Lower Upper

62 100

98 9.9 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU036152.D (-1383) (-)

Ion 98.05 (97.75 to 98.75): VU036154.D (-1307) (-)

5.84

300000

250000

200000

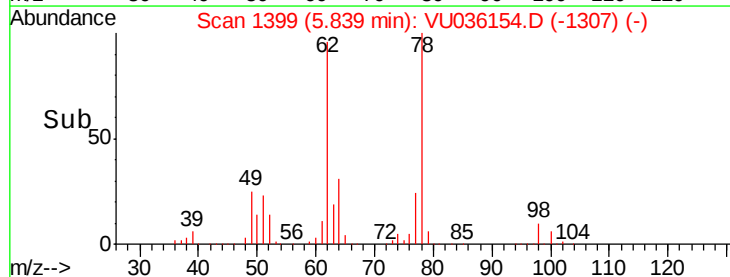
150000

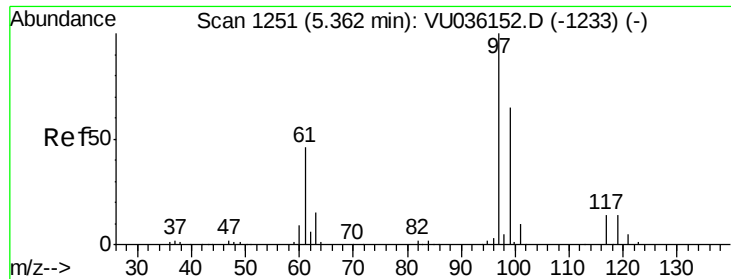
100000

50000

0

Time-->

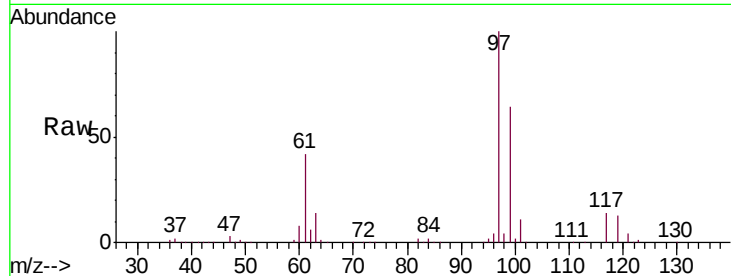




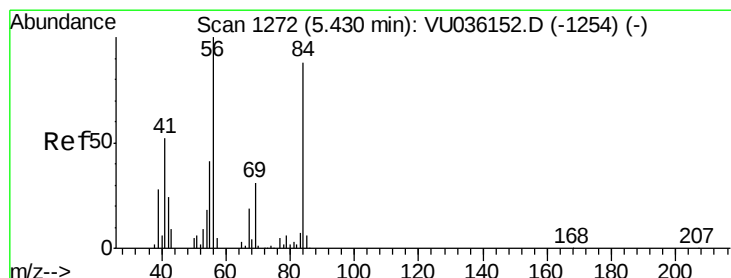
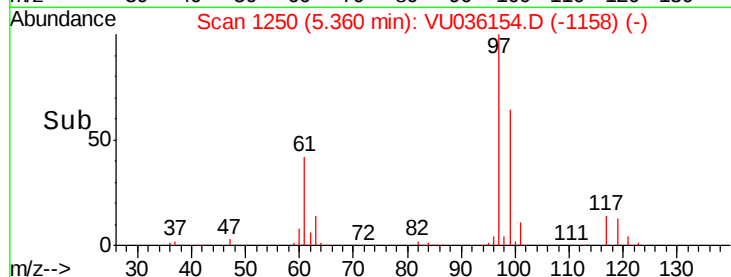
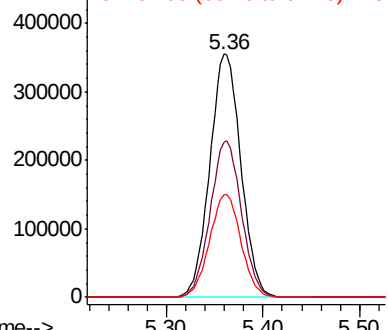
#29
1,1,1-Trichloroethane
Concen: 20.293 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036154.D
Acq: 12 Dec 2019 16:44

Instrument :
MSVOA_U
ClientSampleId :
VSTD02004

Tgt Ion: 97 Resp: 793585
Ion Ratio Lower Upper
97 100
99 64.6 52.6 79.0
61 42.6 35.4 53.2

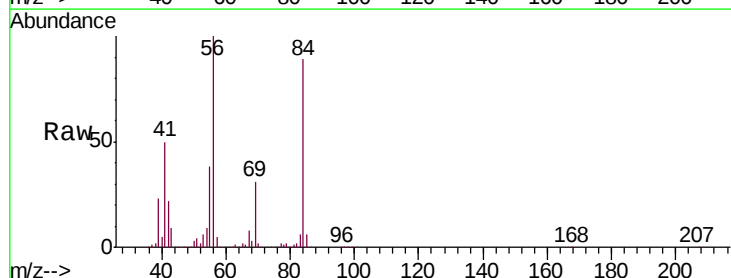


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

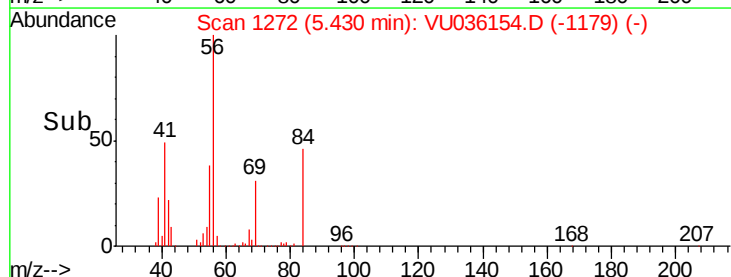
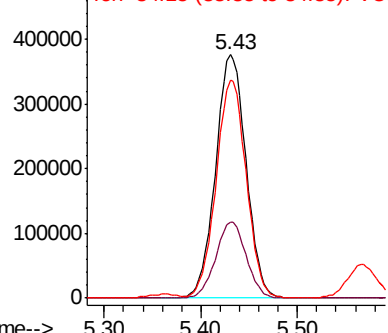


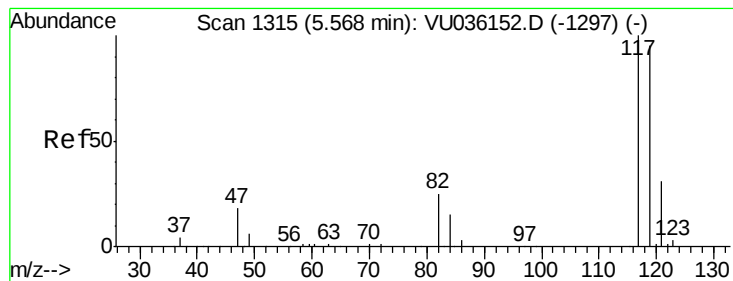
#30
Cyclohexane
Concen: 26.307 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036154.D
Acq: 12 Dec 2019 16:44

Tgt Ion: 56 Resp: 822390
Ion Ratio Lower Upper
56 100
69 31.4 24.7 37.1
84 88.7 71.4 107.2



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





#31

Carbon tetrachloride

Concen: 20.159 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

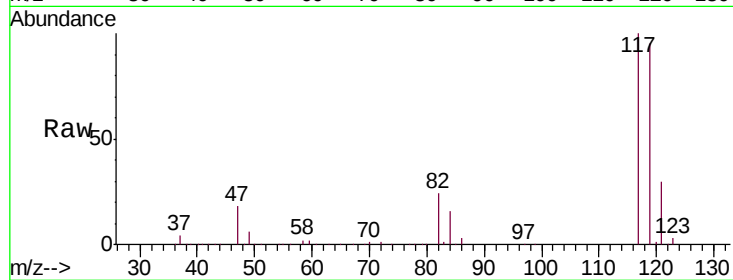
VSTD02004

Tgt Ion:117 Resp: 713666

Ion Ratio Lower Upper

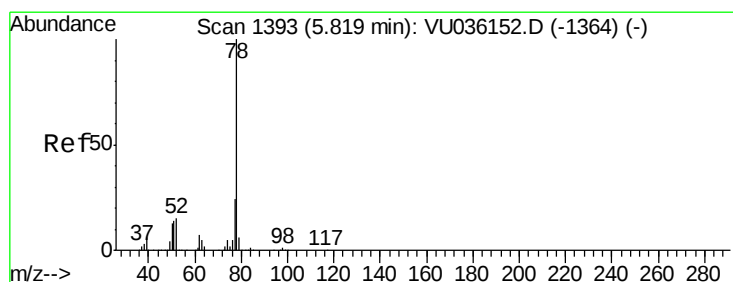
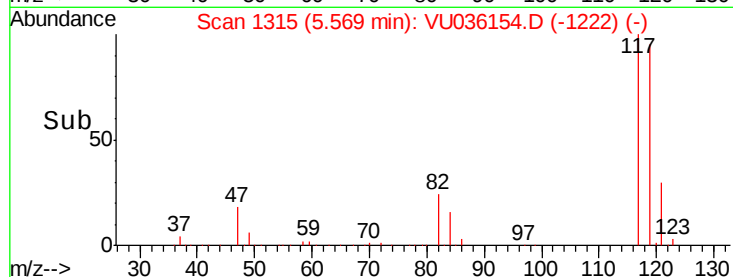
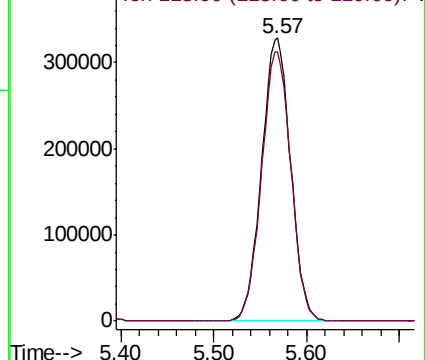
117 100

119 96.1 76.6 114.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 21.878 ug/L

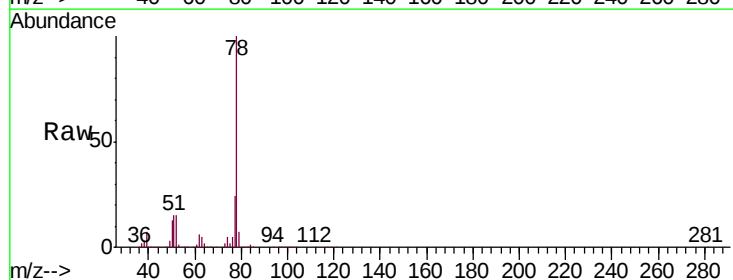
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

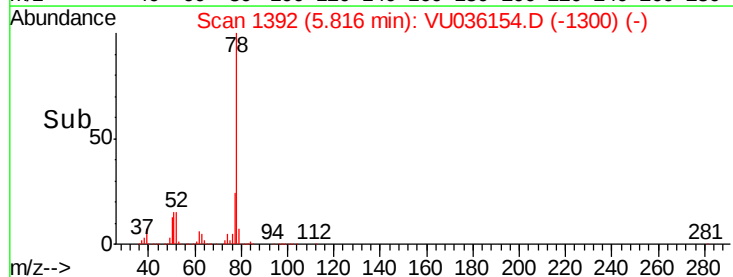
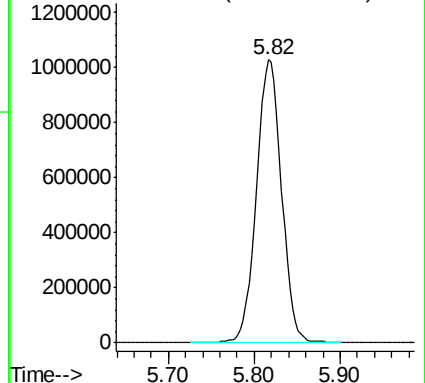
Lab File: VU036154.D

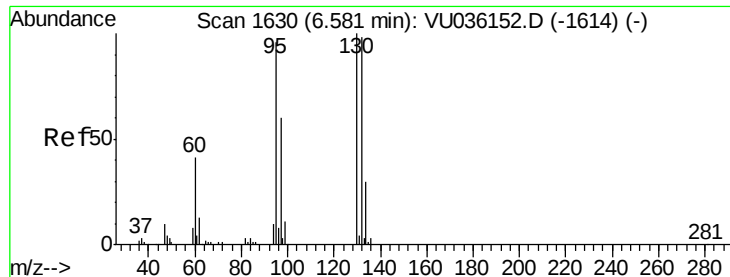
Acq: 12 Dec 2019 16:44

Tgt Ion: 78 Resp: 2097494



Abundance Ion 78.10 (77.80 to 78.80): VU0

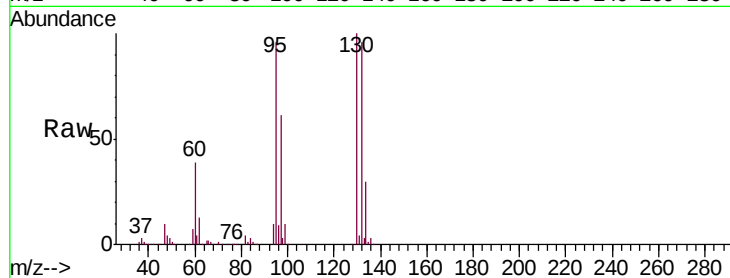




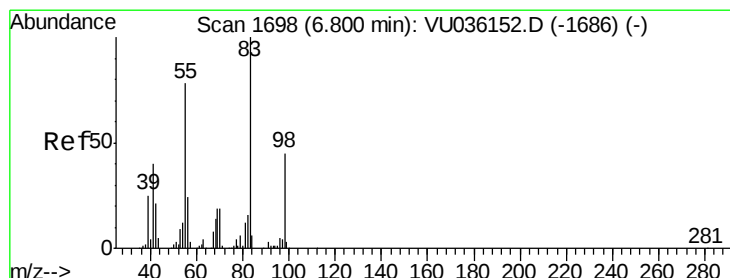
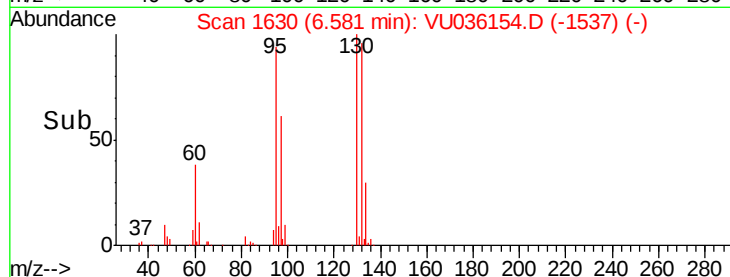
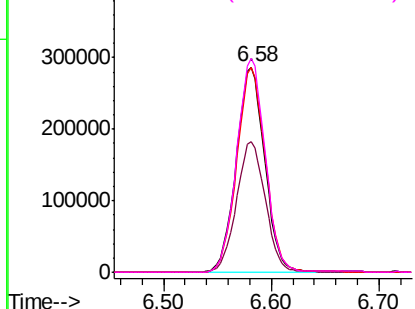
#34
 Trichloroethene
 Concen: 20.880 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

Tgt Ion: 95 Resp: 528471
 Ion Ratio Lower Upper
 95 100
 97 64.0 43.7 81.1
 132 99.6 71.7 133.3
 130 104.2 73.1 135.7

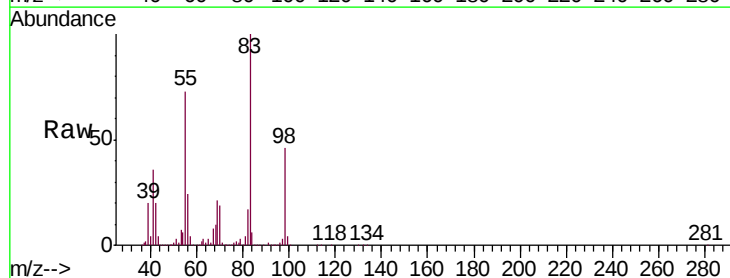


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

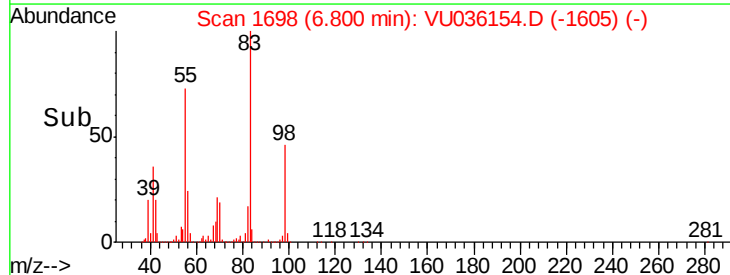
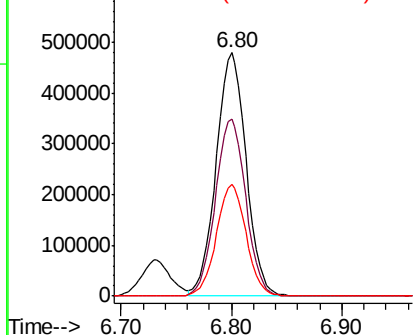


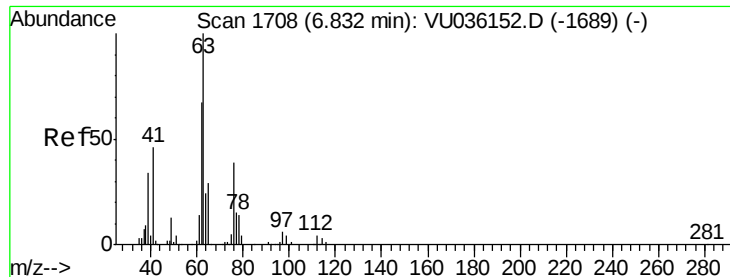
#35
 Methylcyclohexane
 Concen: 26.252 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Tgt Ion: 83 Resp: 901364
 Ion Ratio Lower Upper
 83 100
 55 73.5 61.9 92.9
 98 45.2 35.8 53.6



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 21.574 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

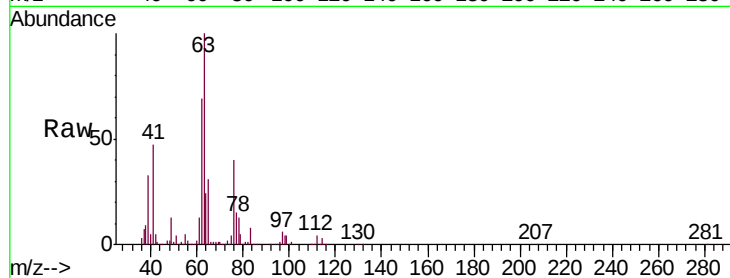
VSTD02004

Tgt Ion: 63 Resp: 521650

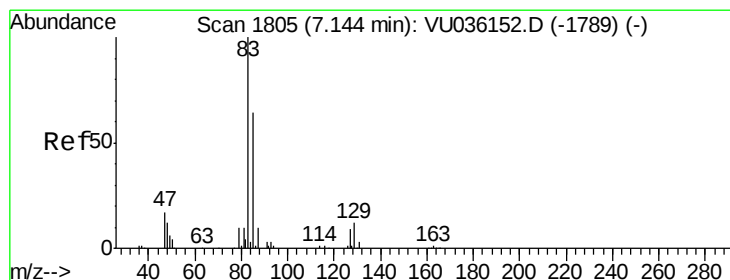
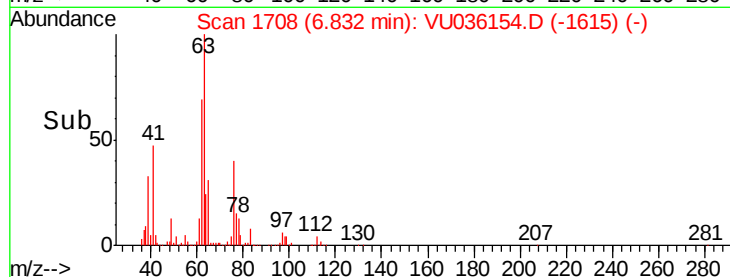
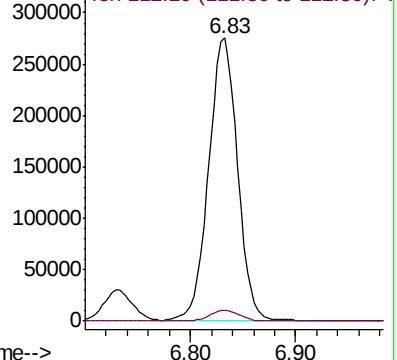
Ion Ratio Lower Upper

63 100

112 4.0 3.6 5.4



Abundance Ion 63.10 (62.80 to 63.80): VU036154.D (-1689) (-)



#38

Bromodichloromethane

Concen: 20.454 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

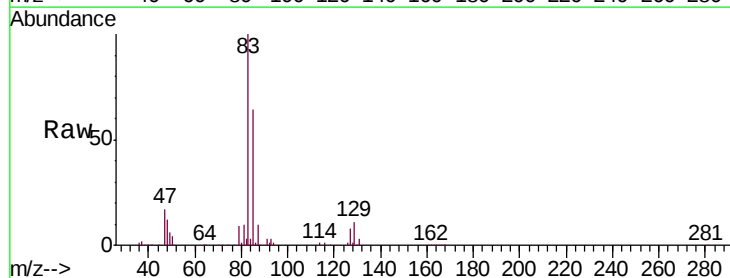
Tgt Ion: 83 Resp: 657659

Ion Ratio Lower Upper

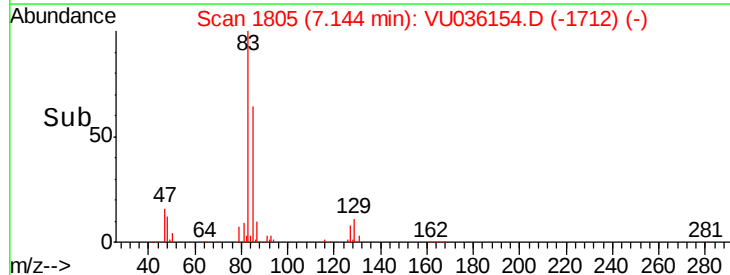
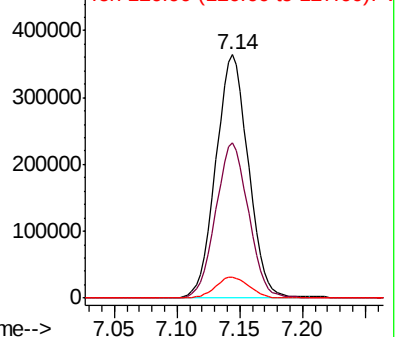
83 100

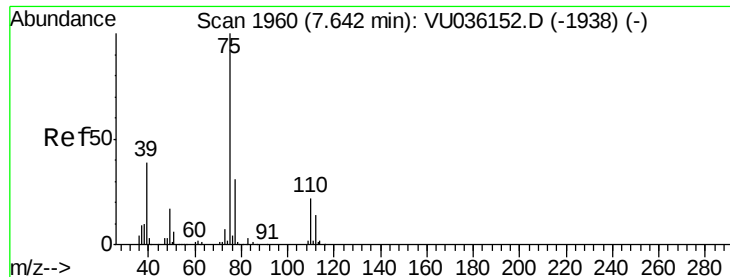
85 63.7 44.7 83.1

127 8.4 7.4 11.0



Abundance Ion 82.95 (82.65 to 83.65): VU036154.D (-1789) (-)





#39

cis-1,3-Dichloropropene

Concen: 24.315 ug/L

RT: 7.64 min Scan# 1960

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

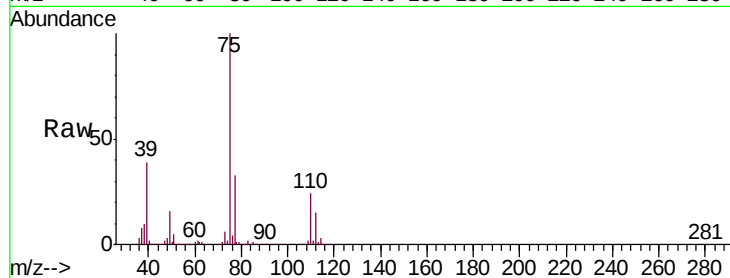
VSTD02004

Tgt Ion: 75 Resp: 794234

Ion Ratio Lower Upper

75 100

77 32.5 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VU036154.D (-1938) (-)

Ion 77.05 (76.75 to 77.75): VU036154.D (-1938) (-)

7.64

400000

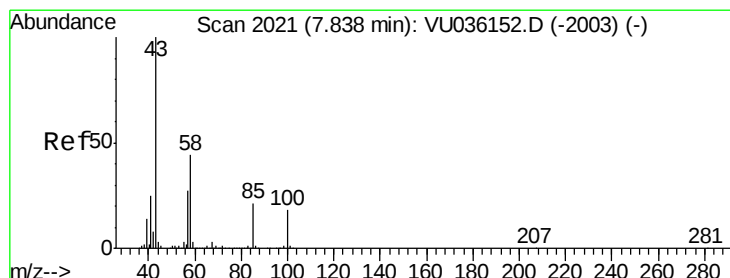
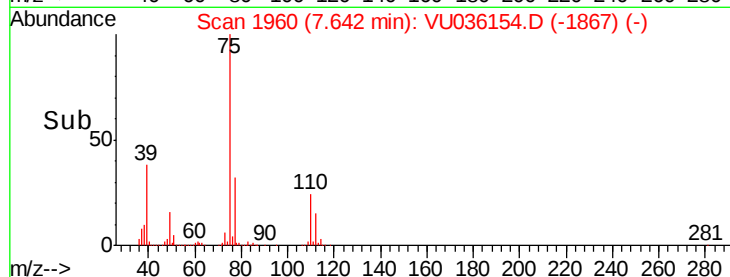
300000

200000

100000

0

Time--> 7.50 7.60 7.70



#40

4-Methyl-2-pentanone

Concen: 236.701 ug/L

RT: 7.84 min Scan# 2020

Delta R.T. -0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

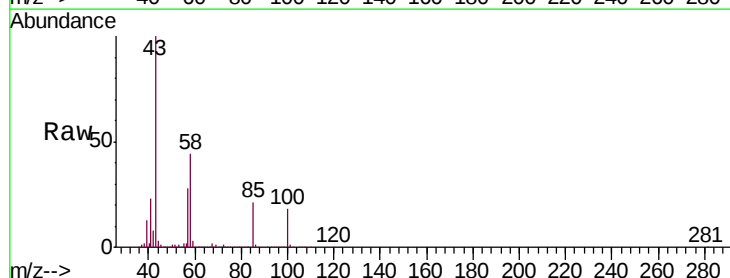
Tgt Ion: 43 Resp: 2989835

Ion Ratio Lower Upper

43 100

58 43.9 34.4 51.6

100 17.7 13.4 20.2



Abundance Ion 43.05 (42.75 to 43.75): VU036154.D (-1928) (-)

Ion 58.05 (57.75 to 58.75): VU036154.D (-1928) (-)

Ion 100.15 (99.85 to 100.85): VU036154.D (-1928) (-)

7.84

2000000

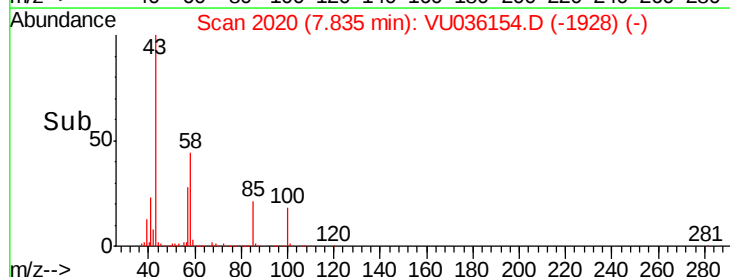
1500000

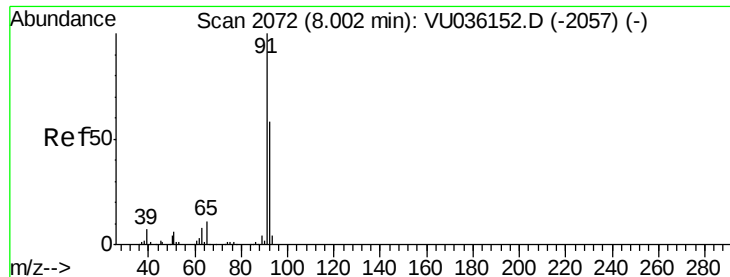
1000000

500000

0

Time--> 7.70 7.80 7.90





#42

Toluene

Concen: 22.618 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

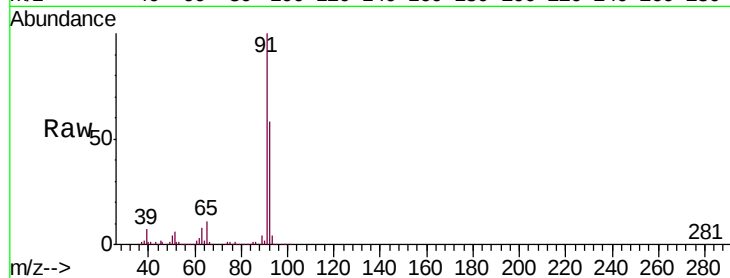
VSTD02004

Tgt Ion: 91 Resp: 2323266

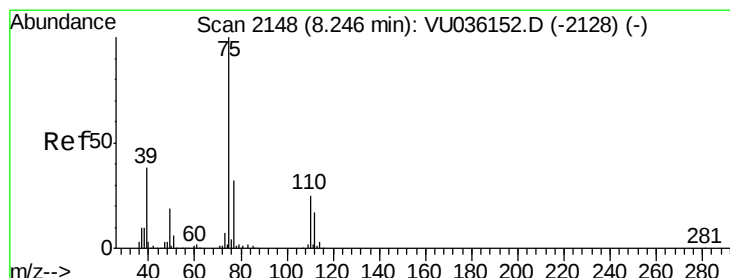
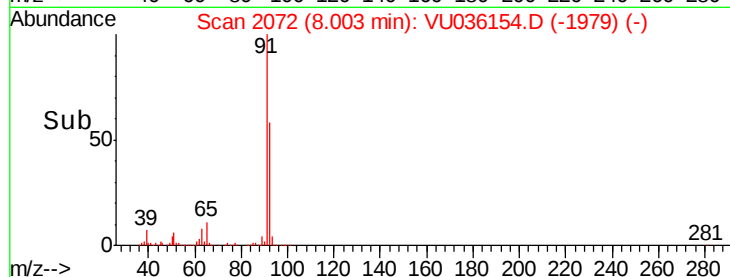
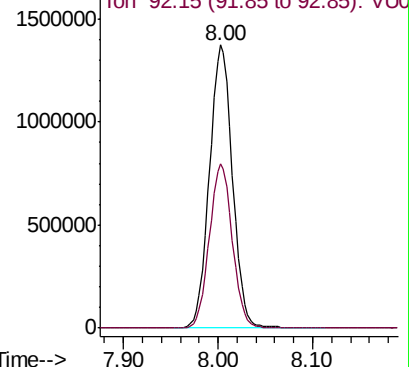
Ion Ratio Lower Upper

91 100

92 58.2 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU036152.D (-2057) (-)



#44

trans-1,3-Dichloropropene

Concen: 22.962 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU036154.D

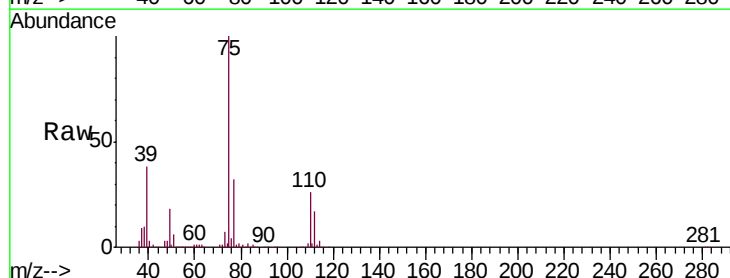
Acq: 12 Dec 2019 16:44

Tgt Ion: 75 Resp: 648499

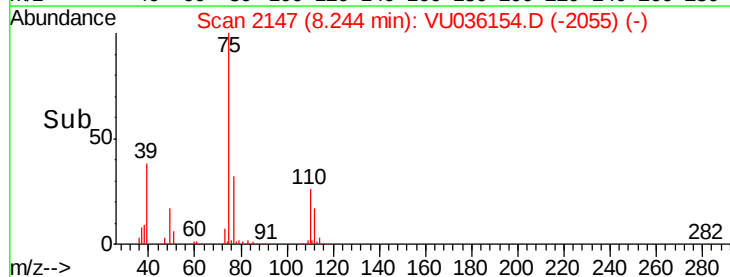
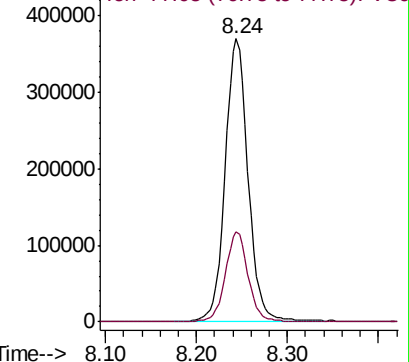
Ion Ratio Lower Upper

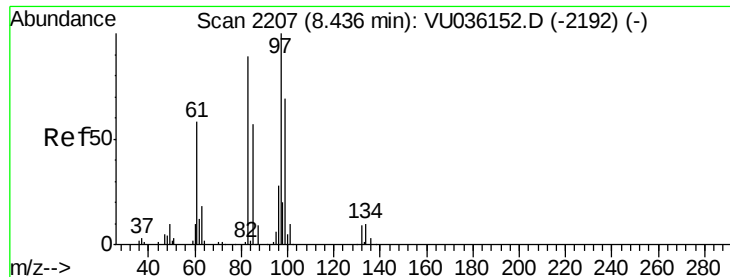
75 100

77 31.8 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VU036152.D (-2128) (-)

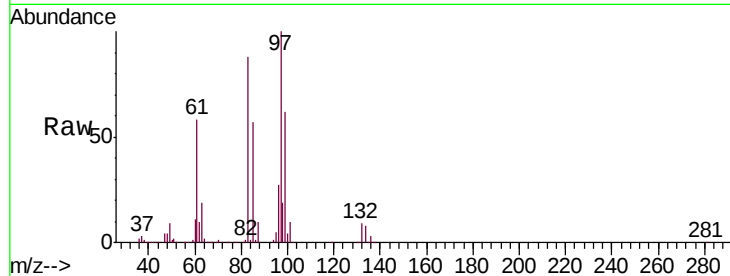




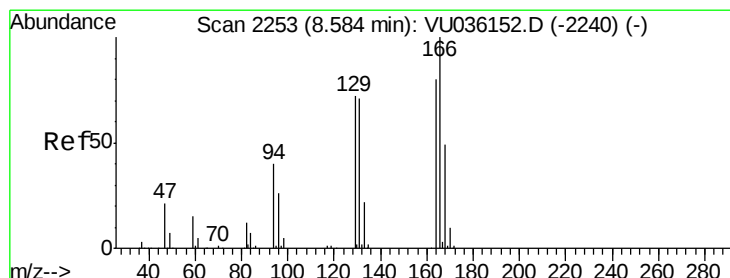
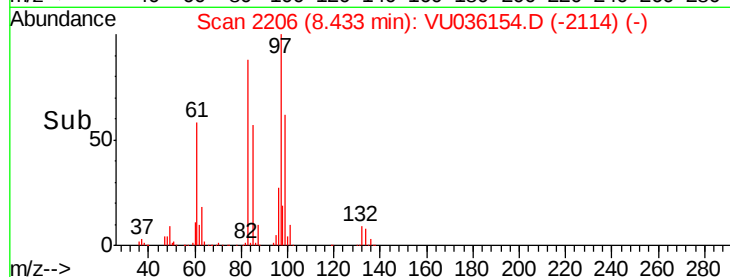
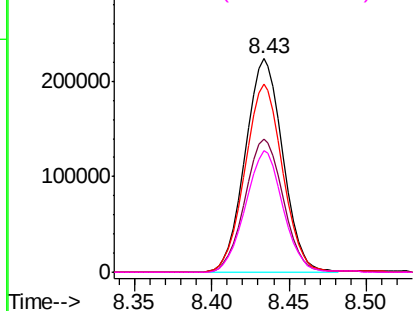
#45
 1,1,2-Trichloroethane
 Concen: 20.190 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

Tgt Ion:	97	Resp:	380278
Ion	Ratio	Lower	Upper
97	100		
99	62.5	48.4	90.0
83	88.3	62.2	115.4
85	56.7	40.1	74.5

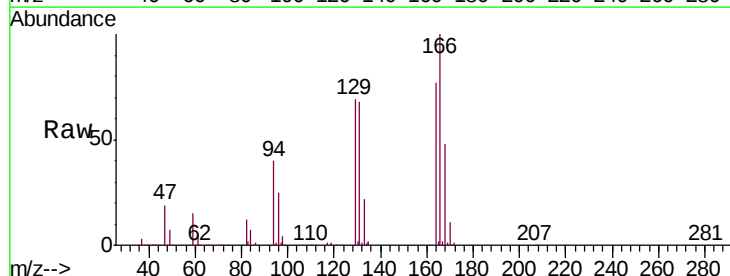


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

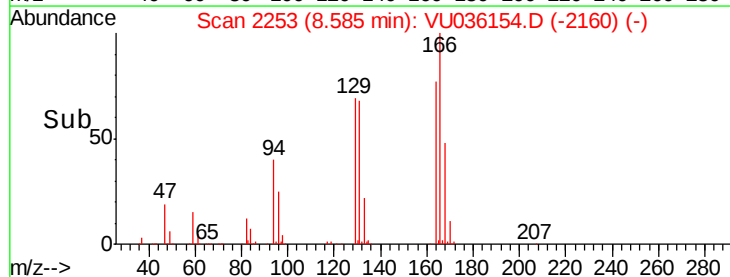
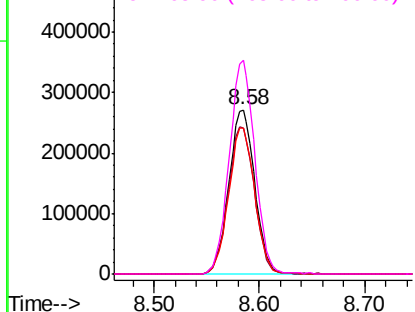


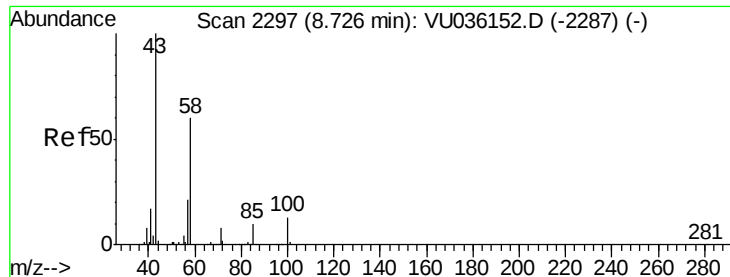
#47
 Tetrachloroethene
 Concen: 19.364 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Tgt Ion:	164	Resp:	459248
Ion	Ratio	Lower	Upper
164	100		
129	89.2	63.1	117.3
131	88.6	61.4	114.0
166	130.0	87.1	161.7



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

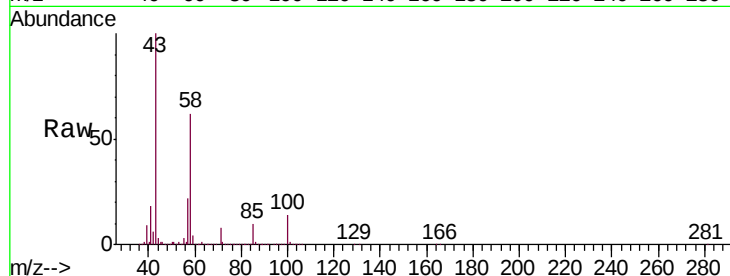




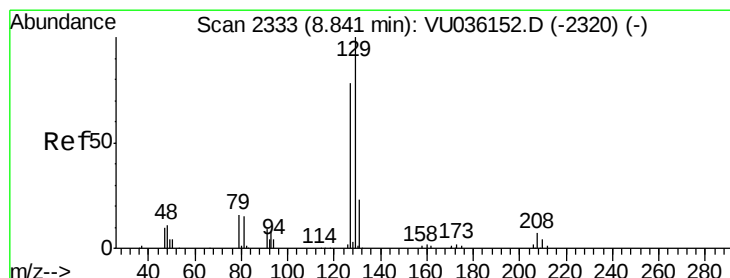
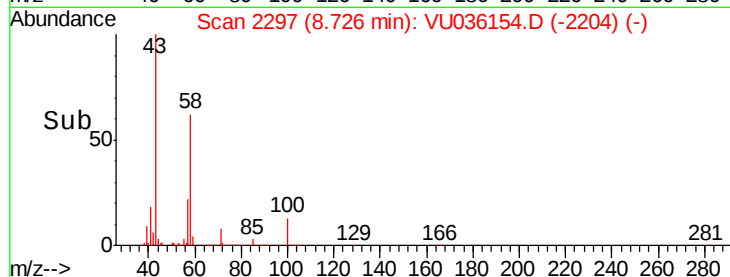
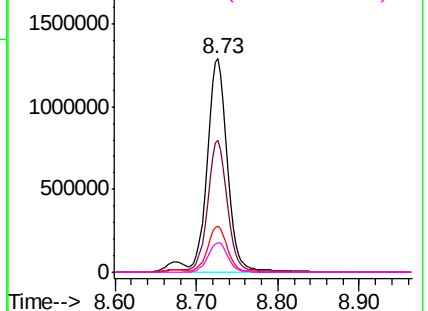
#48
2-Hexanone
Concen: 252.313 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU036154.D
Acq: 12 Dec 2019 16:44

Instrument :
MSVOA_U
ClientSampleId :
VSTD02004

Tgt Ion: 43 Resp: 2226925
Ion Ratio Lower Upper
43 100
58 61.2 48.6 72.8
57 21.0 16.7 25.1
100 13.8 10.6 15.8

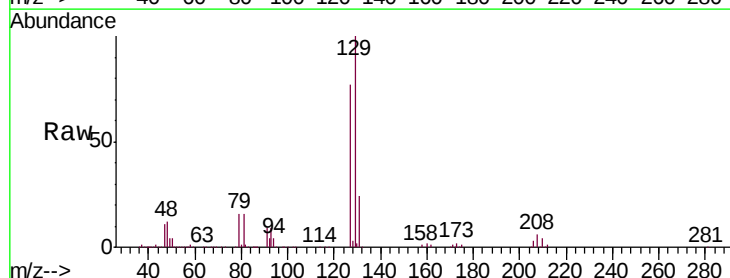


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

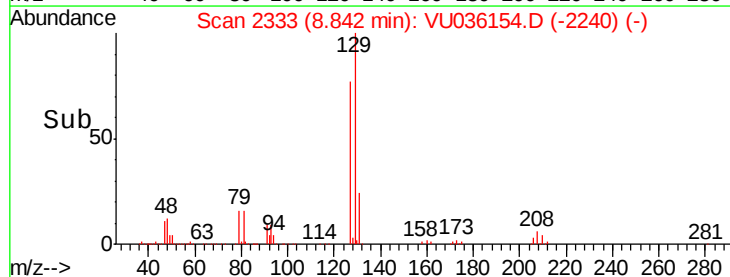
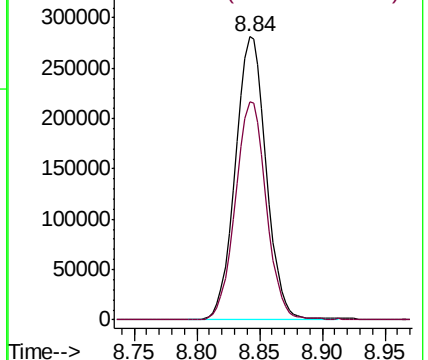


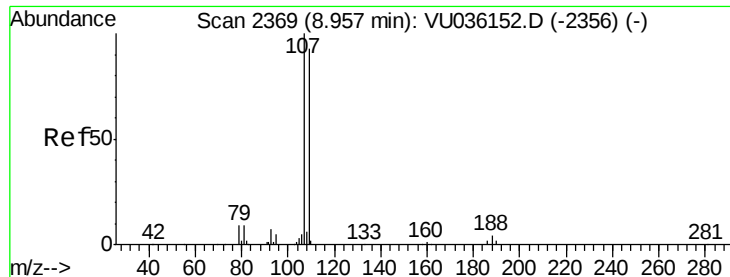
#49
Dibromochloromethane
Concen: 19.988 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036154.D
Acq: 12 Dec 2019 16:44

Tgt Ion: 129 Resp: 481528
Ion Ratio Lower Upper
129 100
127 77.0 54.7 101.5



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

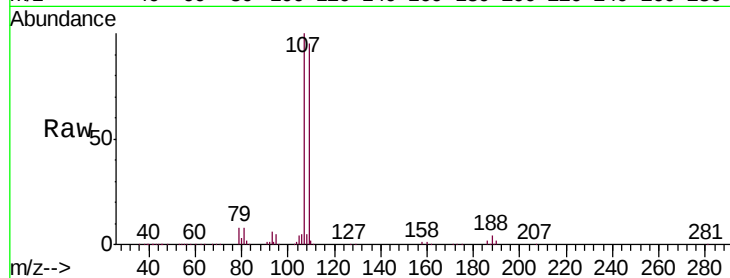




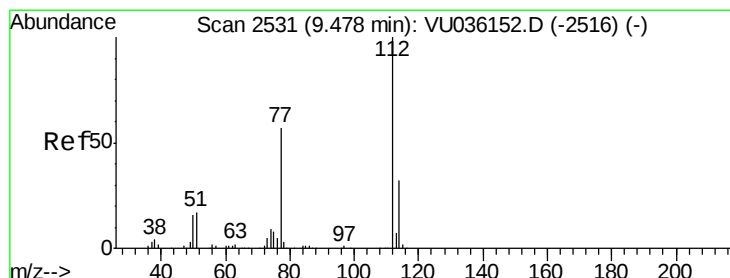
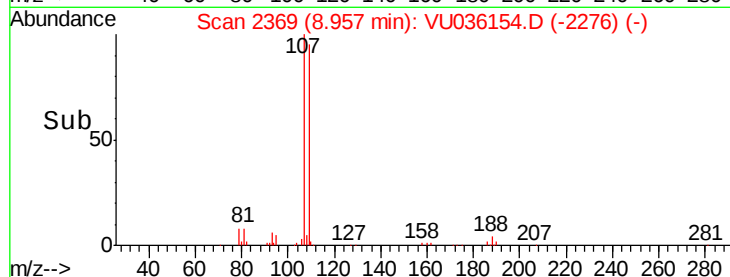
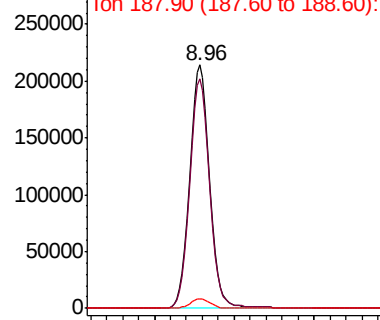
#50
1,2-Dibromoethane
Concen: 20.810 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VU036154.D
Acq: 12 Dec 2019 16:44

Instrument :
MSVOA_U
ClientSampleId :
VSTD02004

Tgt Ion:107 Resp: 370715
Ion Ratio Lower Upper
107 100
109 94.5 65.4 121.4
188 3.9 3.4 5.2

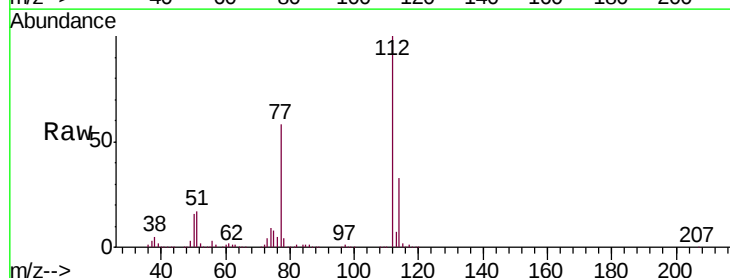


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

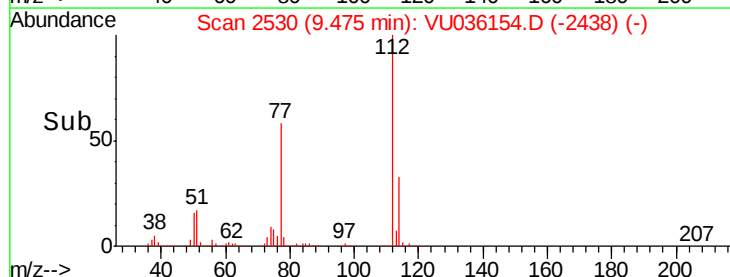
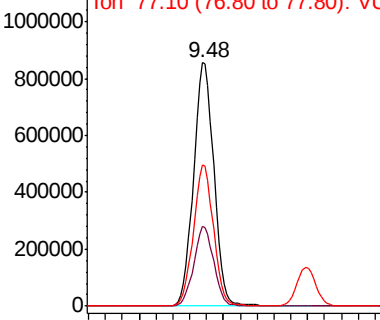


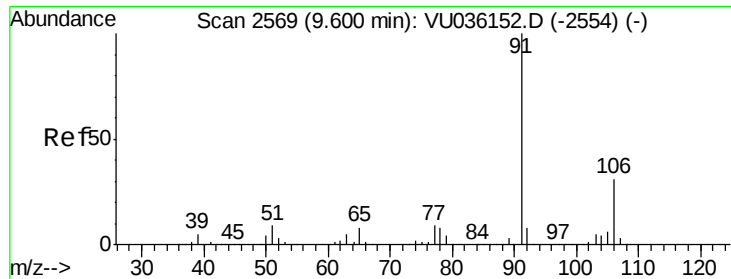
#51
Chlorobenzene
Concen: 20.669 ug/L
RT: 9.48 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU036154.D
Acq: 12 Dec 2019 16:44

Tgt Ion:112 Resp: 1436320
Ion Ratio Lower Upper
112 100
114 32.5 22.2 41.2
77 57.9 45.7 68.5



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 24.014 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

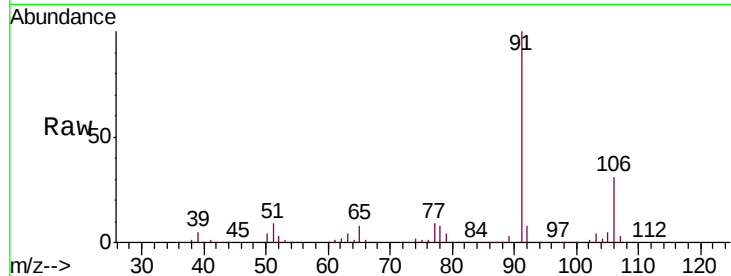
VSTD02004

Tgt Ion: 91 Resp: 2494157

Ion Ratio Lower Upper

91 100

106 31.4 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VU036152.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036152.D (-2554) (-)

9.60

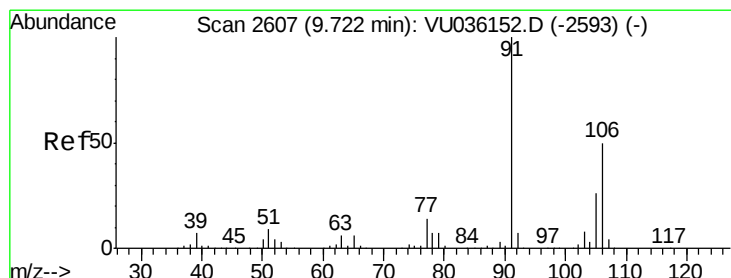
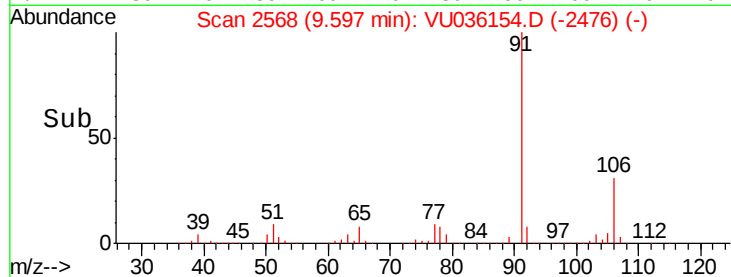
1500000

1000000

500000

0

Time-->



#53

m,p-Xylene

Concen: 23.560 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036154.D

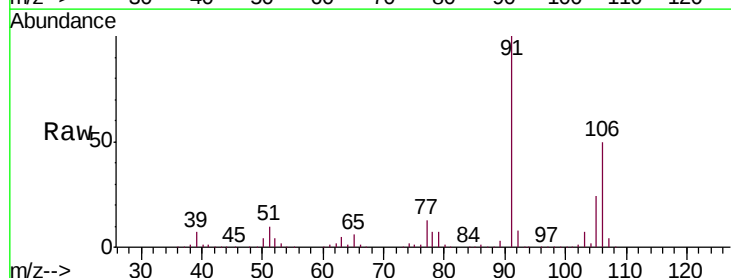
Acq: 12 Dec 2019 16:44

Tgt Ion: 106 Resp: 980412

Ion Ratio Lower Upper

106 100

91 200.9 140.4 260.8



Abundance Ion 106.15 (105.85 to 106.85): VU036152.D (-2593) (-)

Ion 91.15 (90.85 to 91.85): VU036152.D (-2593) (-)

9.72

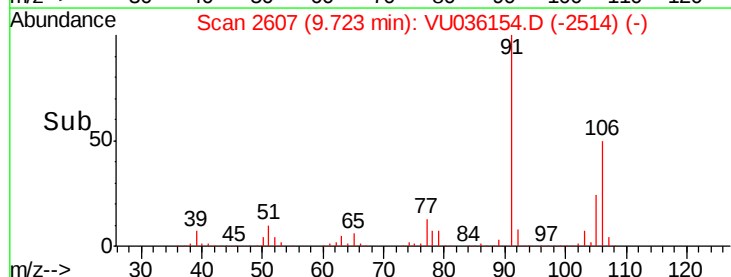
1500000

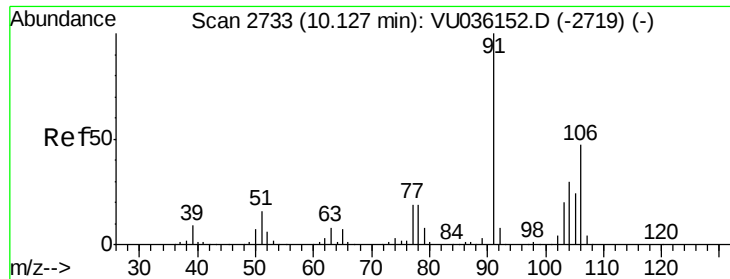
1000000

500000

0

Time-->





#54

o-Xylene

Concen: 23.556 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

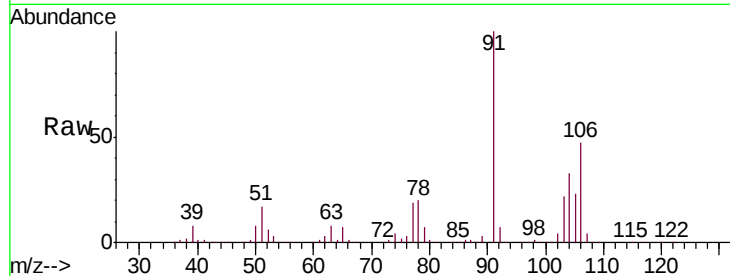
VSTD02004

Tgt Ion:106 Resp: 936701

Ion Ratio Lower Upper

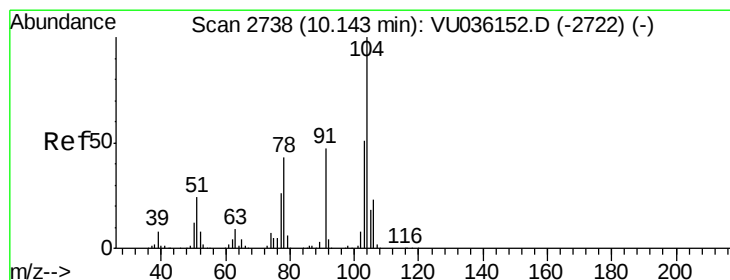
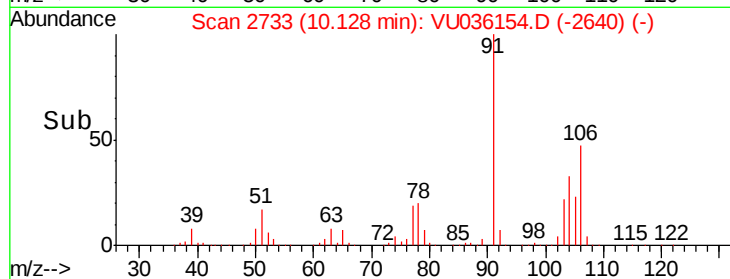
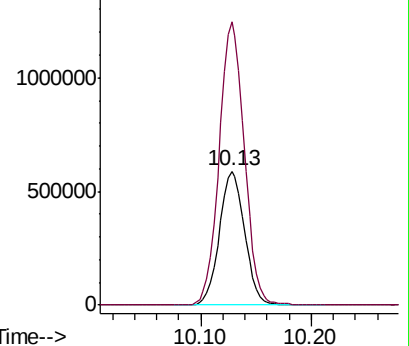
106 100

91 211.1 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 23.834 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036154.D

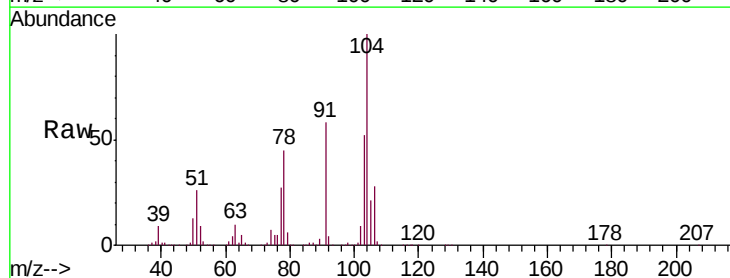
Acq: 12 Dec 2019 16:44

Tgt Ion:104 Resp: 1633355

Ion Ratio Lower Upper

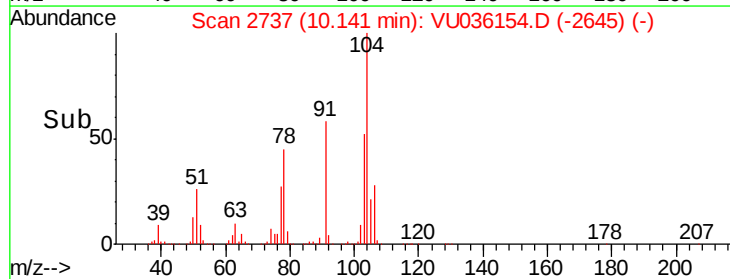
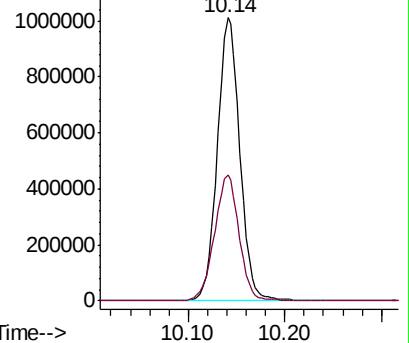
104 100

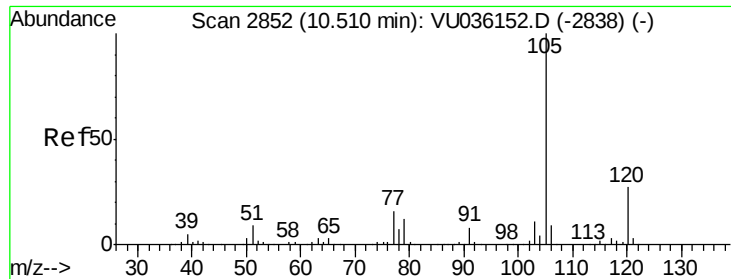
78 44.7 30.0 55.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 23.467 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

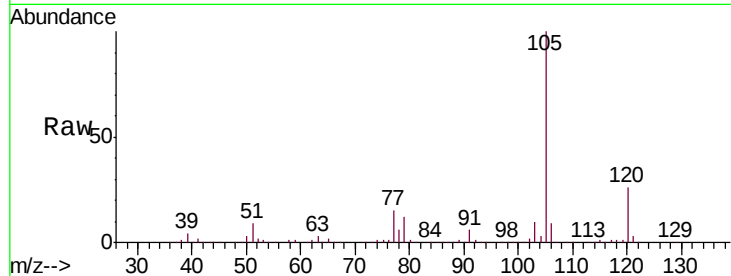
Tgt Ion:105 Resp: 2464210

Ion Ratio Lower Upper

105 100

120 26.5 21.2 31.8

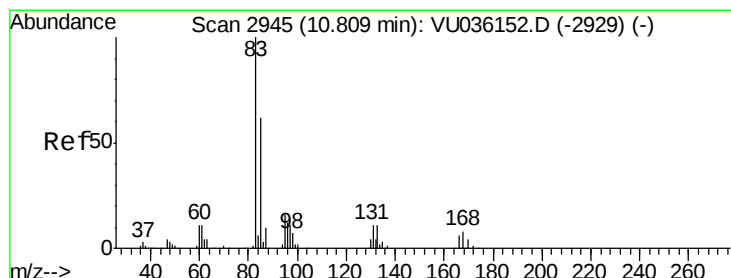
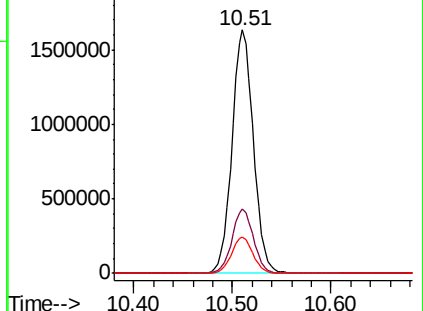
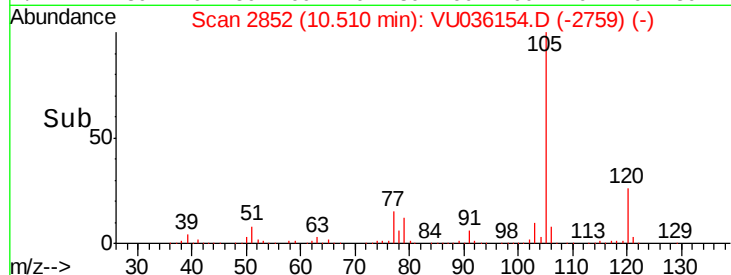
77 15.0 12.6 18.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 19.682 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

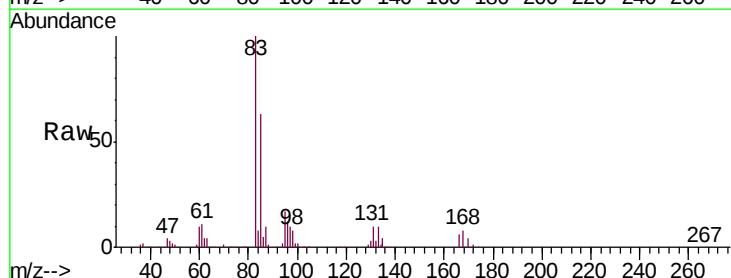
Tgt Ion: 83 Resp: 491119

Ion Ratio Lower Upper

83 100

85 63.1 43.2 80.2

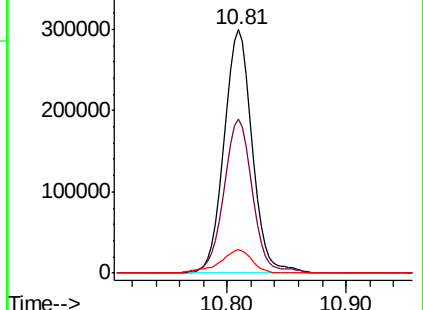
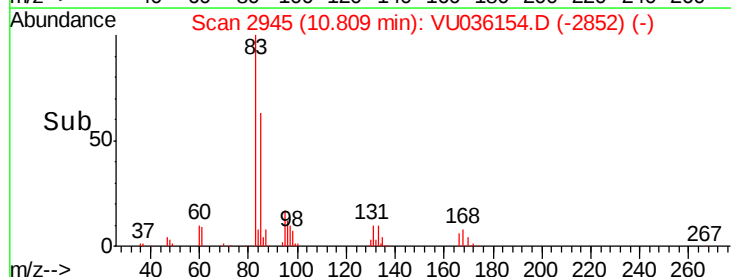
131 9.6 8.6 12.8

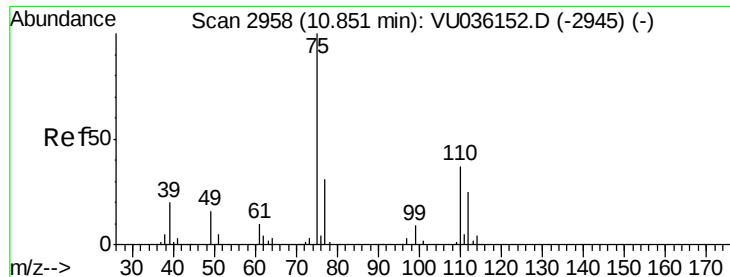


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 20.599 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

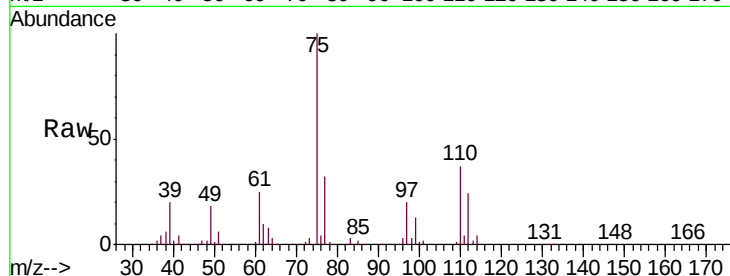
VSTD02004

Tgt Ion: 75 Resp: 354645

Ion Ratio Lower Upper

75 100

77 32.0 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU036154.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU036154.D (-2945) (-)

10.85

250000

200000

150000

100000

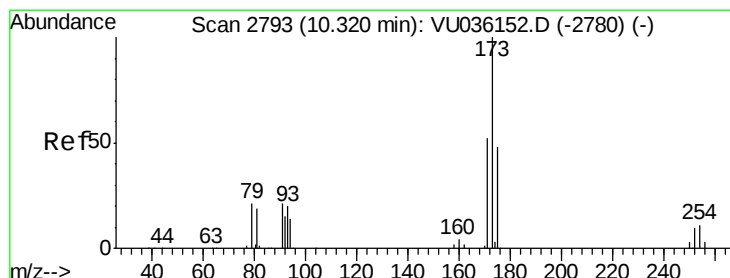
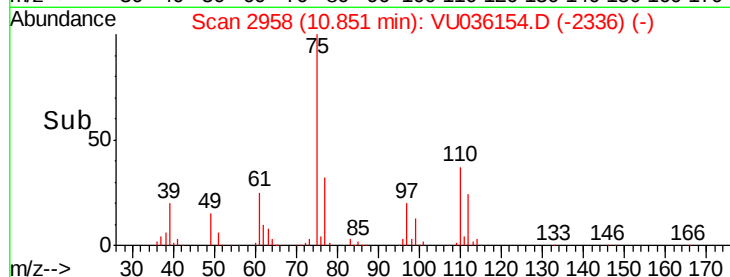
50000

0

10.80

10.90

Time-->



#61

Bromoform

Concen: 15.514 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

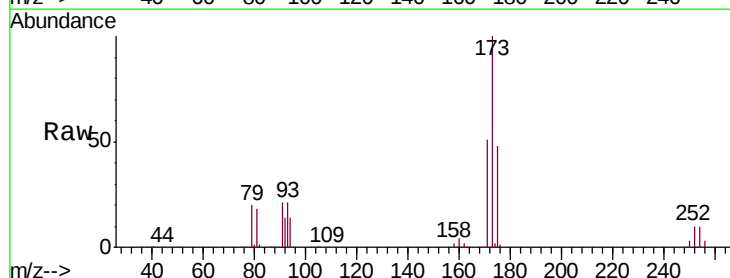
Tgt Ion: 173 Resp: 288746

Ion Ratio Lower Upper

173 100

175 49.3 39.1 58.7

254 9.7 8.0 12.0



Abundance Ion 172.90 (172.60 to 173.60): VU036154.D (-2780) (-)

Ion 174.90 (174.60 to 175.60): VU036154.D (-2780) (-)

Ion 253.75 (253.45 to 254.45): VU036154.D (-2780) (-)

10.32

200000

150000

100000

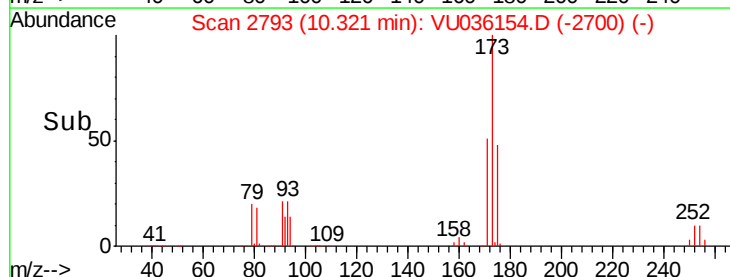
50000

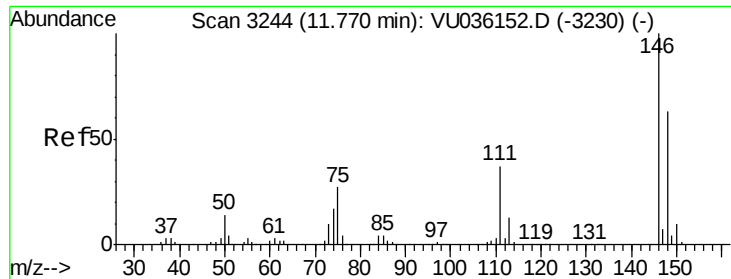
0

10.30

10.40

Time-->

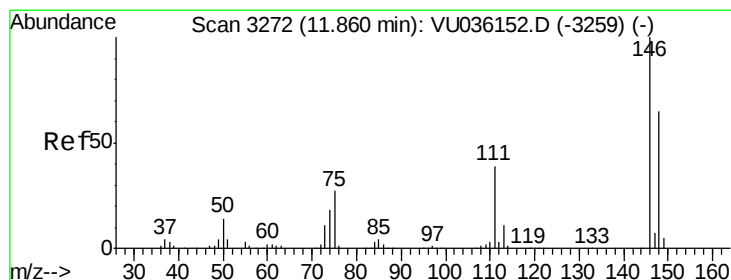
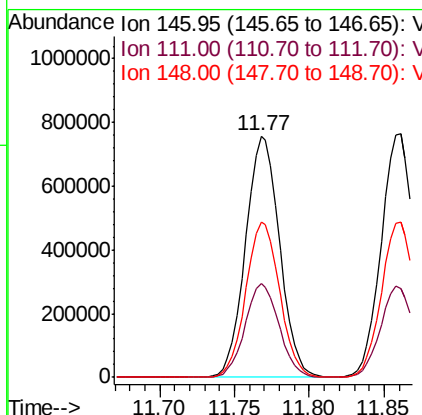
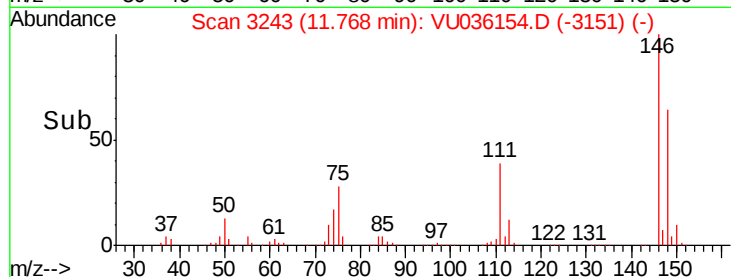
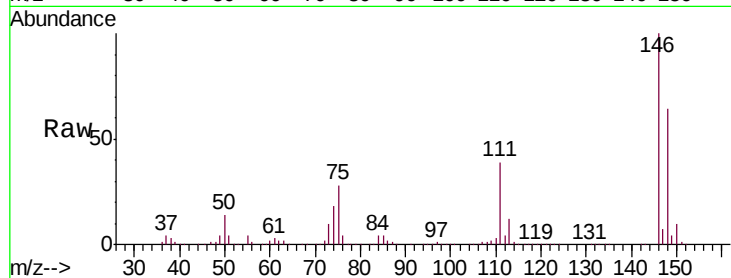




#62
 1,3-Dichlorobenzene
 Concen: 19.417 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. -0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

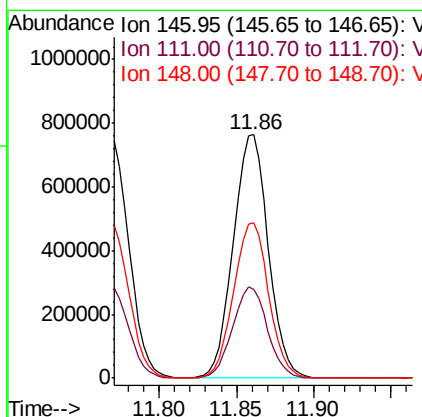
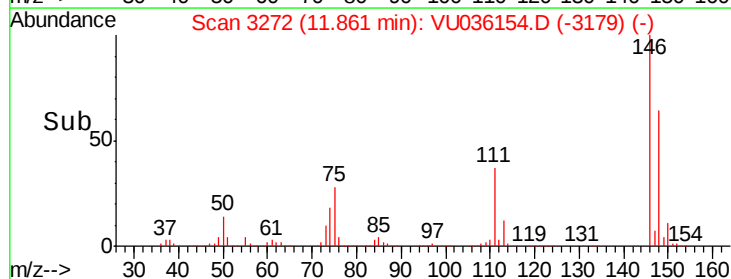
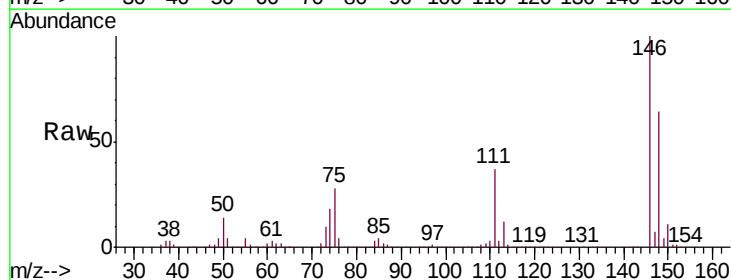
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

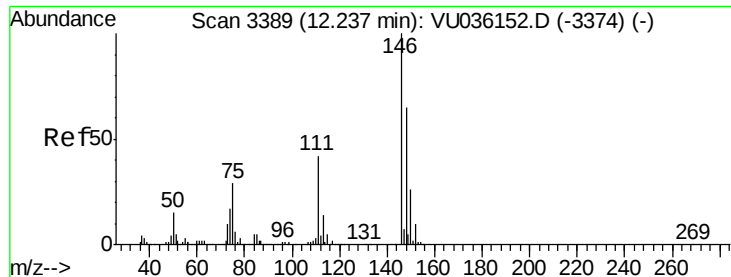
Tgt Ion:146 Resp: 1200644
 Ion Ratio Lower Upper
 146 100
 111 39.1 26.2 48.6
 148 64.4 44.2 82.0



#63
 1,4-Dichlorobenzene
 Concen: 19.822 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Tgt Ion:146 Resp: 1198760
 Ion Ratio Lower Upper
 146 100
 111 36.7 27.5 51.1
 148 64.0 45.4 84.2





#65

1,2-Dichlorobenzene

Concen: 18.710 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

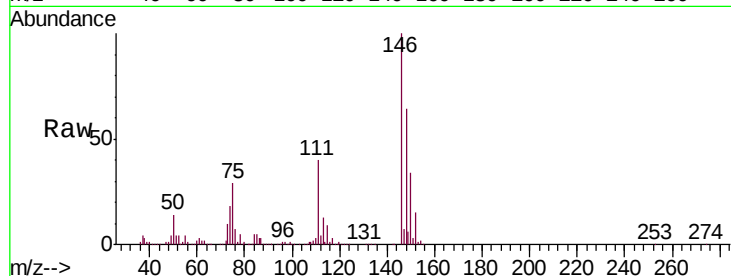
Tgt Ion:146 Resp: 1139618

Ion Ratio Lower Upper

146 100

111 40.0 33.3 49.9

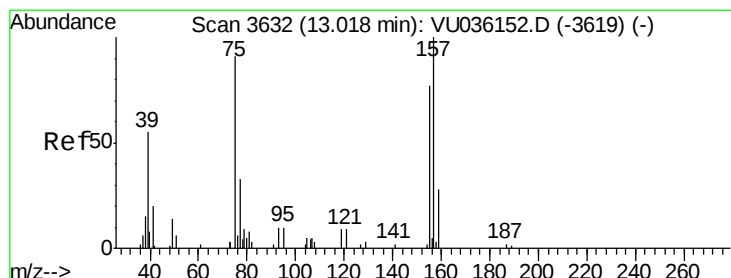
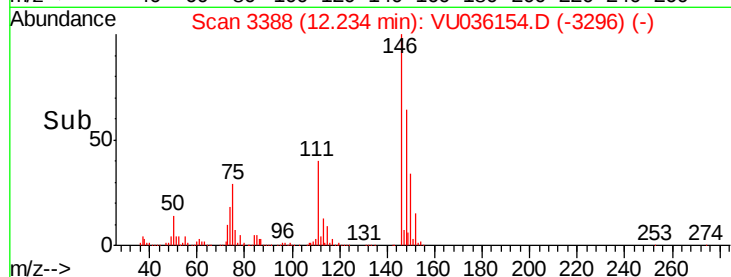
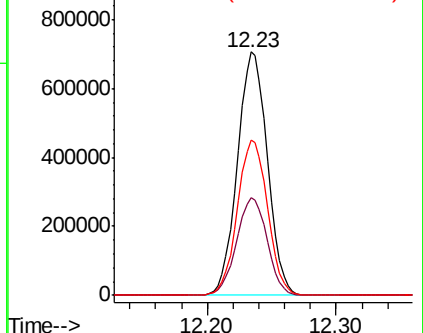
148 63.6 52.2 78.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 18.392 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

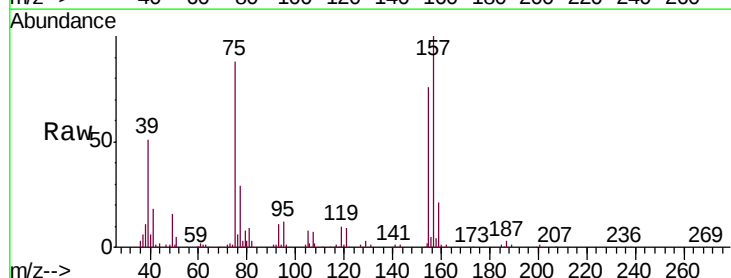
Tgt Ion: 75 Resp: 69591

Ion Ratio Lower Upper

75 100

155 85.9 68.2 102.2

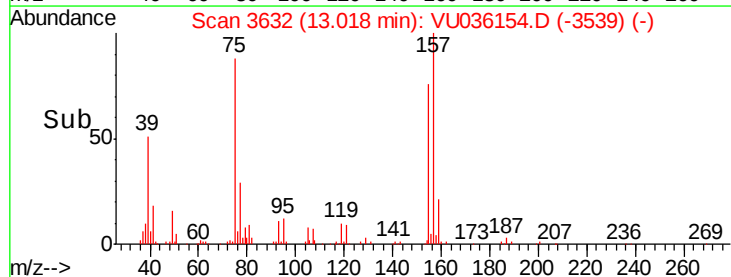
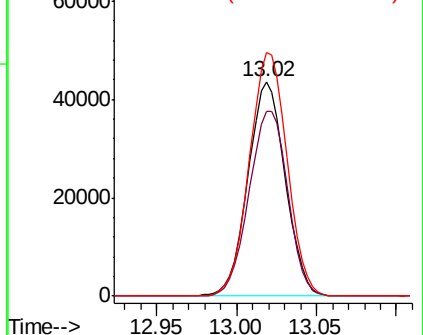
157 113.4 88.2 132.2

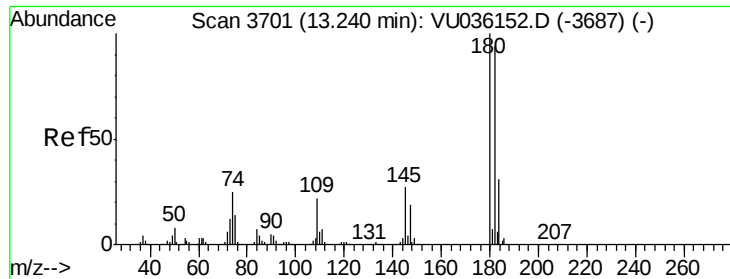


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

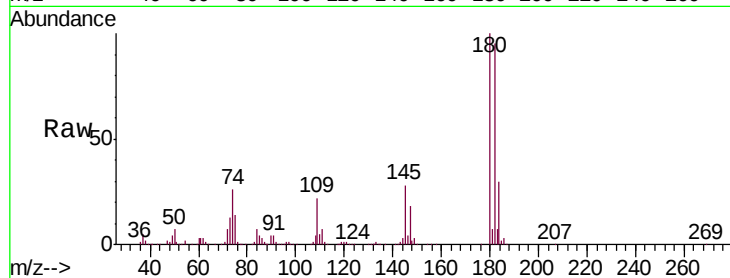




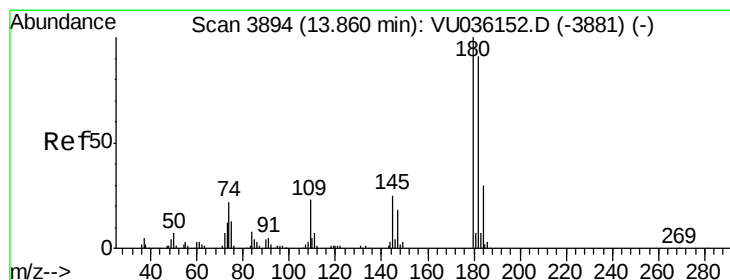
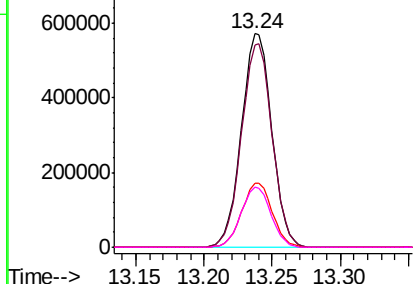
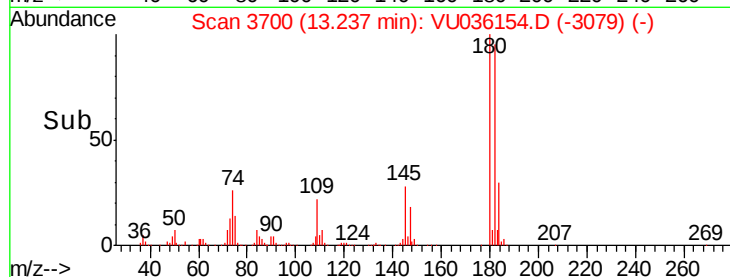
#67
 1,3,5-Trichlorobenzene
 Concen: 21.770 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

Tgt Ion:	180	Resp:	881307
Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.4
184	30.3	24.1	36.1
145	27.9	22.1	33.1

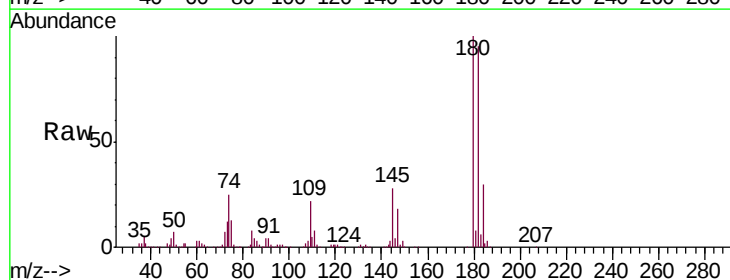


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

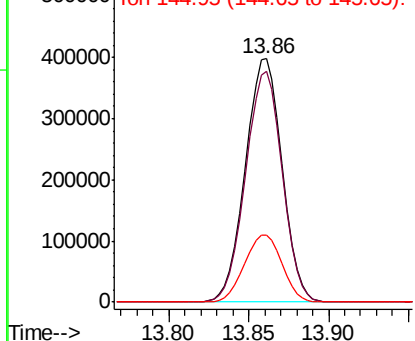
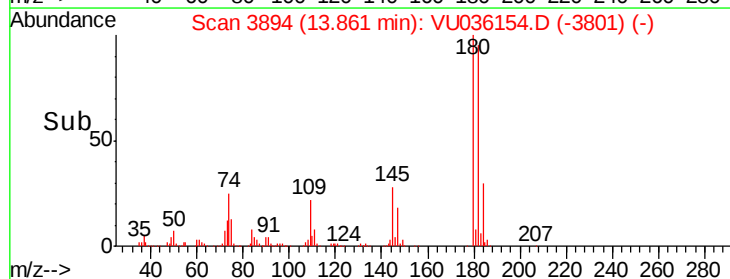


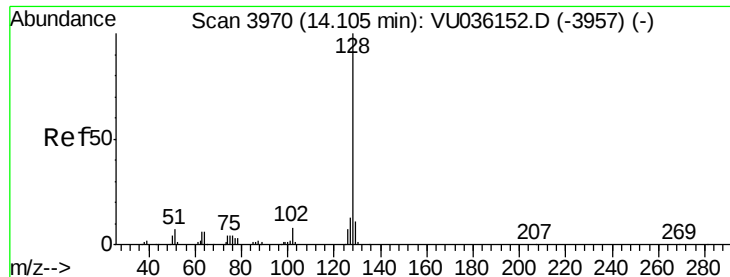
#68
 1,2,4-trichlorobenzene
 Concen: 29.131 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036154.D
 Acq: 12 Dec 2019 16:44

Tgt Ion:	180	Resp:	623668
Ion	Ratio	Lower	Upper
180	100		
182	94.6	75.0	112.6
145	28.2	21.8	32.6



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 37.738 ug/L

RT: 14.11 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

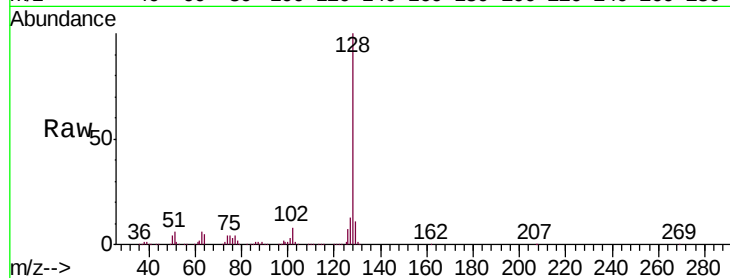
Tgt Ion:128 Resp: 794770

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

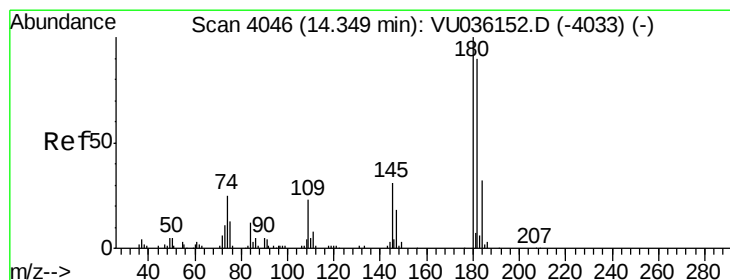
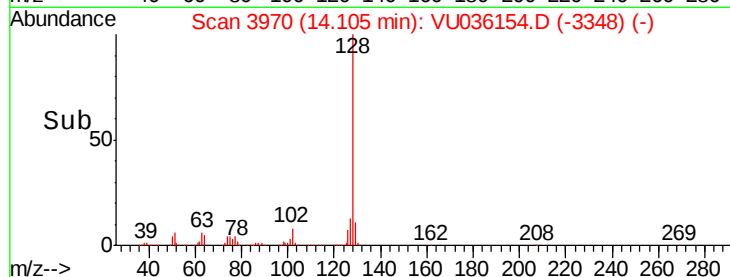
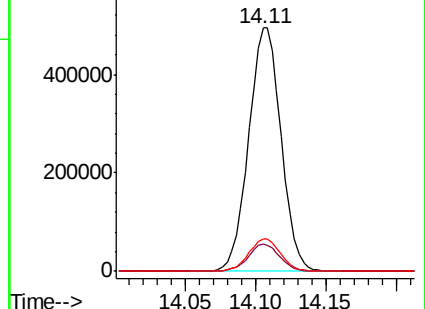
127 13.3 11.3 16.9



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 27.655 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036154.D

Acq: 12 Dec 2019 16:44

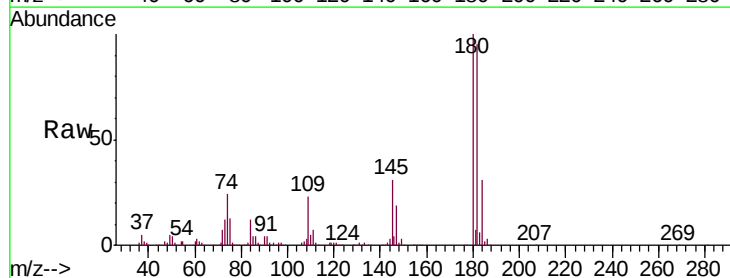
Tgt Ion:180 Resp: 579239

Ion Ratio Lower Upper

180 100

182 94.4 74.8 112.2

145 30.6 24.1 36.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

