

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121319\
 Data File : VU036192.D
 Acq On : 13 Dec 2019 12:58
 Operator : JC/MD
 Sample : VSTD00102
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00102

Quant Time: Dec 14 00:25:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 14 00:22:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	254702	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	274759	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	127603	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	22094	0.88	ug/L	0.00
7) Chloroethane-d5	1.93	69	20344	0.92	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	33196	0.99	ug/L	0.00
20) 2-Butanone-d5	4.69	46	37924	9.21	ug/L	0.00
24) Chloroform-d	5.11	84	36695	0.99	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	19381	1.03	ug/L	0.00
32) Benzene-d6	5.77	84	63743	0.89	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	21145	0.95	ug/L	0.00
41) Toluene-d8	7.93	98	57850	0.87	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	8245	0.88	ug/L	0.00
46) 2-Hexanone-d5	8.67	63	26204	7.60	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	18970	0.95	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	23865	1.00	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	30399	1.080 ug/L	98
3) Chloromethane	1.53	50	38646	1.063 ug/L	99
5) Vinyl chloride	1.62	62	36358	1.082 ug/L	99
6) Bromomethane	1.87	94	17757	0.883 ug/L	97
8) Chloroethane	1.95	64	20866	1.020 ug/L	100
9) Trichlorofluoromethane	2.16	101	45571	1.103 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	22282	1.103 ug/L	99
12) 1,1-Dichloroethene	2.61	96	19580	1.027 ug/L	93
13) Acetone	2.68	43	42701	11.927 ug/L	99
14) Carbon disulfide	2.82	76	67233	1.065 ug/L	97
15) Methyl Acetate	2.99	43	8070	1.048 ug/L	93
16) Methylene chloride	3.08	84	33218	1.242 ug/L	95
17) Methyl tert-butyl Ether	3.42	73	38550	0.972 ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	19674	0.994 ug/L	97
19) 1,1-Dichloroethane	3.92	63	38543	1.059 ug/L	98
21) 2-Butanone	4.77	43	44628	9.375 ug/L	93
22) cis-1,2-Dichloroethene	4.72	96	21346	1.049 ug/L	96
23) Bromochloromethane	5.02	128	10920	1.078 ug/L	95
25) Chloroform	5.13	83	42119	1.097 ug/L	100
27) 1,2-Dichloroethane	5.84	62	24855	1.100 ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	35788	1.071 ug/L	97
30) Cyclohexane	5.43	56	25140	0.886 ug/L	98
31) Carbon tetrachloride	5.57	117	32499	1.088 ug/L	97
33) Benzene	5.82	78	82492	0.988 ug/L	100
34) Trichloroethene	6.58	95	22500	1.048 ug/L	95
35) Methylcyclohexane	6.80	83	26631	0.873 ug/L	96
37) 1,2-Dichloropropane	6.83	63	22177	1.034 ug/L	99
38) Bromodichloromethane	7.14	83	28775	1.044 ug/L	93
39) cis-1,3-Dichloropropene	7.65	75	26280	0.919 ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	97923	8.958 ug/L	98

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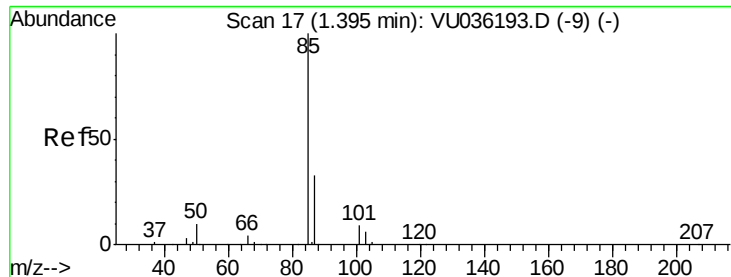
Instrument :
 MSVOA_U
 ClientSampleId :
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Quant Time: Dec 14 00:25:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	8.00	91	86122	0.976	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	22661	0.940	ug/L	93
45) 1,1,2-Trichloroethane	8.43	97	16082	1.017	ug/L	97
47) Tetrachloroethene	8.58	164	19953	1.066	ug/L	97
48) 2-Hexanone	8.73	43	71893	8.928	ug/L	97
49) Dibromochloromethane	8.84	129	19821	1.002	ug/L	90
50) 1,2-Dibromoethane	8.96	107	15008	1.009	ug/L	99
51) Chlorobenzene	9.48	112	59266	1.026	ug/L	96
52) Ethylbenzene	9.60	91	80459	0.929	ug/L	98
53) m,p-Xylene	9.72	106	29591	0.869	ug/L	95
54) o-Xylene	10.13	106	28673	0.883	ug/L	96
55) Styrene	10.14	104	50973	0.881	ug/L	99
56) Isopropylbenzene	10.51	105	72637	0.877	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.81	83	19975	0.999	ug/L	96
59) 1,2,3-Trichloropropane	10.85	75	13715	0.968	ug/L	98
61) Bromoform	10.32	173	11651	0.974	ug/L	98
62) 1,3-Dichlorobenzene	11.77	146	42737	1.025	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	41819	1.018	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	41397	1.035	ug/L	96
66) 1,2-Dibromo-3-chloropropan	13.02	75	2384	0.920	ug/L	86
67) 1,3,5-Trichlorobenzene	13.24	180	31082	1.122	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	17301	1.122	ug/L	98
69) Naphthalene	14.11	128	16896	1.001	ug/L	98
70) 1,2,3-Trichlorobenzene	14.35	180	16776	1.161	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 1.080 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

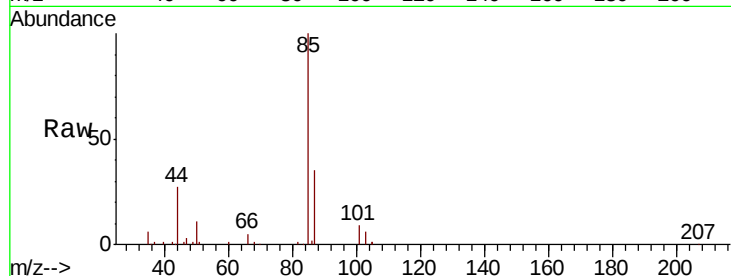
VSTD00102

Tot Ion: 85 Resp: 30399

Ion Ratio Lower Upper

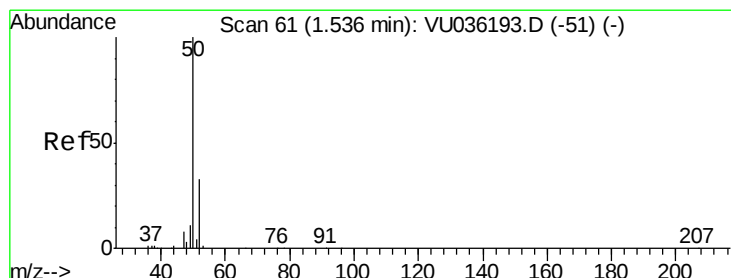
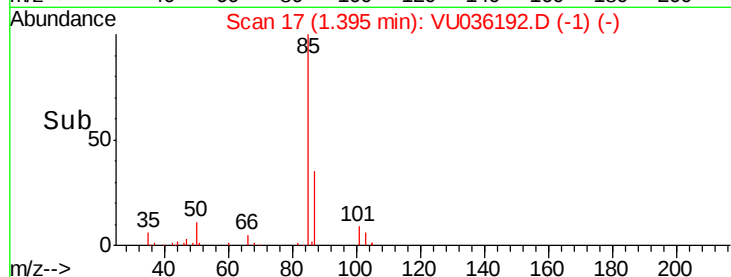
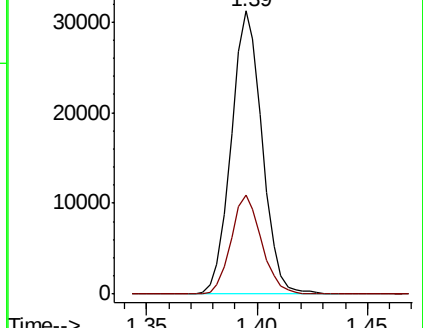
85 100

87 34.3 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU036192.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036192.D (-9) (-)



#3

Chloromethane

Concen: 1.063 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU036192.D

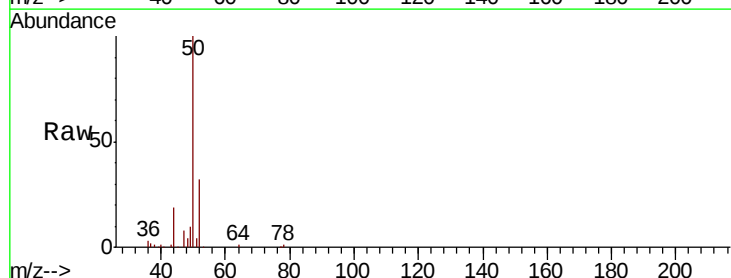
Acq: 13 Dec 2019 12:58

Tgt Ion: 50 Resp: 38646

Ion Ratio Lower Upper

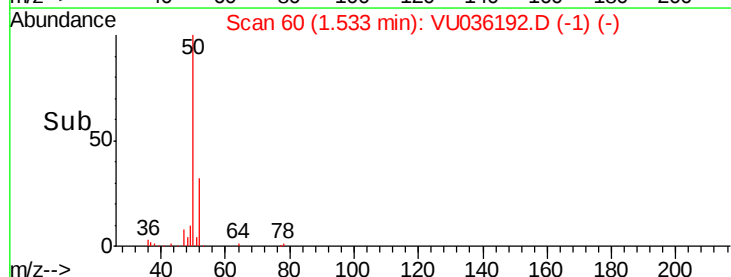
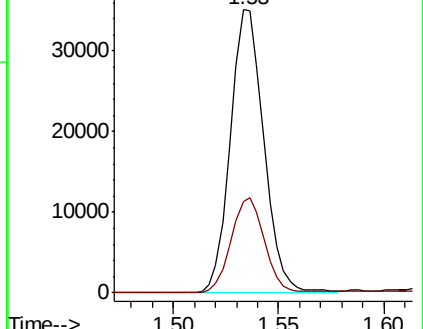
50 100

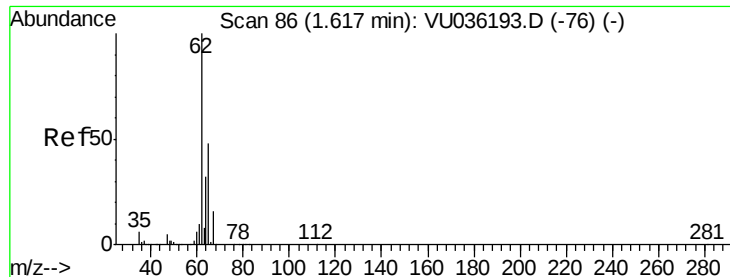
52 32.2 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036192.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU036192.D (-51) (-)





#5

Vinyl chloride

Concen: 1.082 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

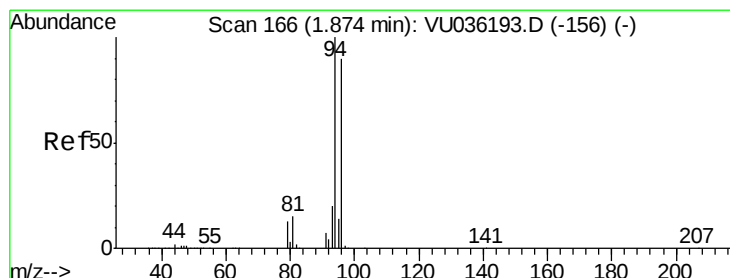
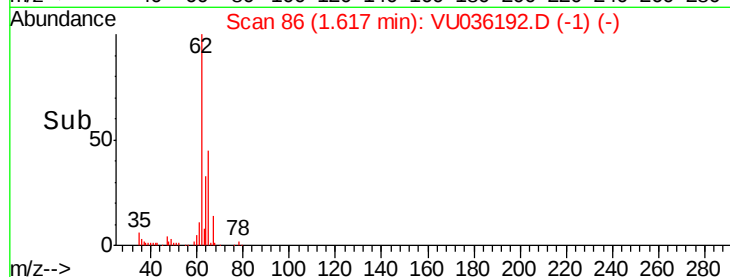
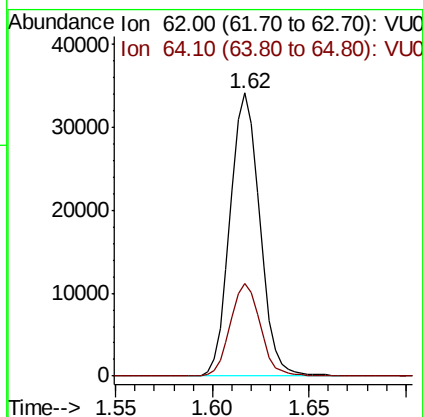
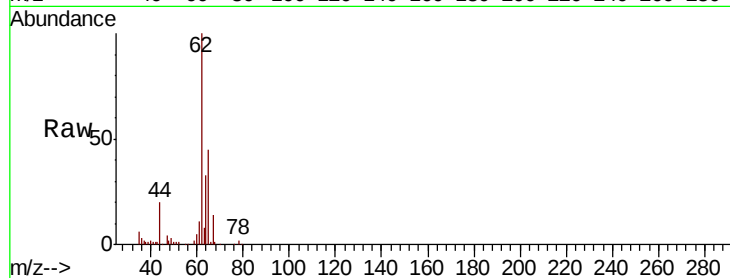
VSTD00102

Tot Ion: 62 Resp: 36358

Ion Ratio Lower Upper

62 100

64 32.6 22.4 41.6



#6

Bromomethane

Concen: 0.883 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036192.D

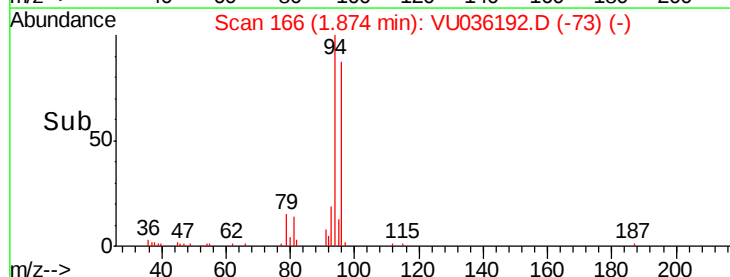
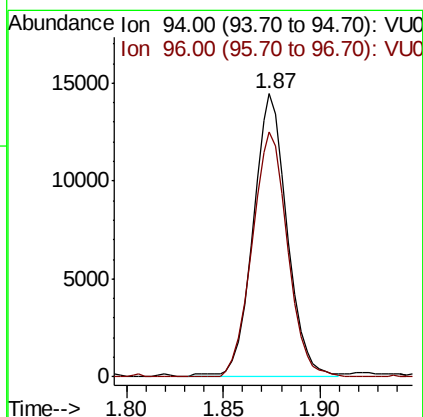
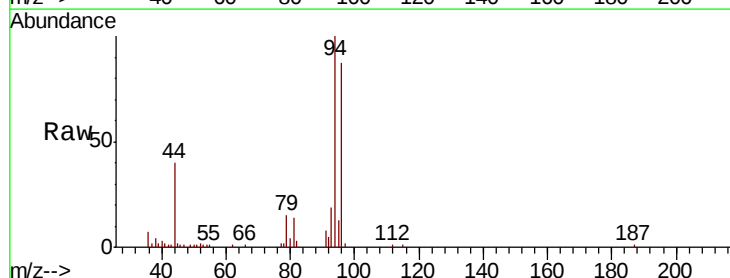
Acq: 13 Dec 2019 12:58

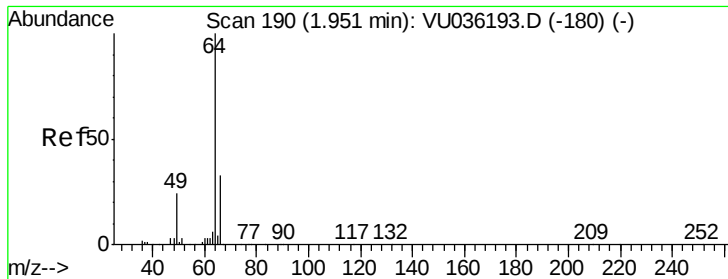
Tgt Ion: 94 Resp: 17757

Ion Ratio Lower Upper

94 100

96 86.6 62.9 116.9





#8

Chloroethane

Concen: 1.020 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

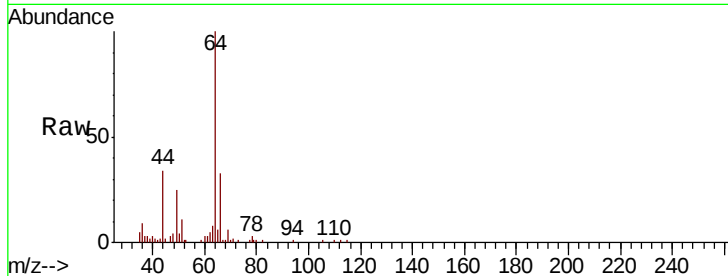
VSTD00102

Tot Ion: 64 Resp: 20866

Ion Ratio Lower Upper

64 100

66 32.8 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU036193.D (-180) (-)

Ion 66.05 (65.75 to 66.75): VU036193.D (-180) (-)

1.95

20000

15000

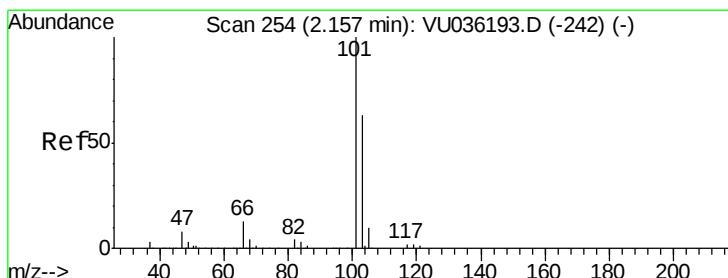
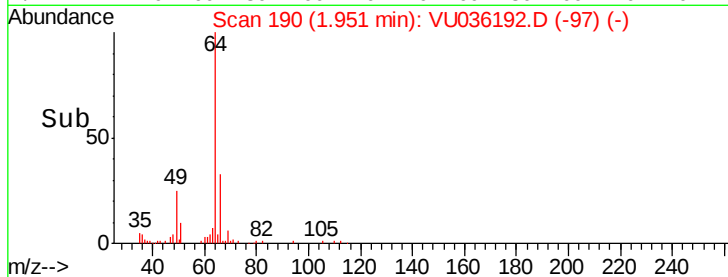
10000

5000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 1.103 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU036192.D

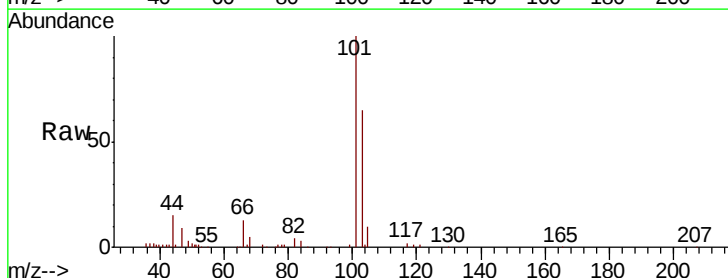
Acq: 13 Dec 2019 12:58

Tgt Ion: 101 Resp: 45571

Ion Ratio Lower Upper

101 100

103 66.7 50.4 75.6



Abundance Ion 101.00 (100.70 to 101.70): VU036193.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU036193.D (-242) (-)

2.16

30000

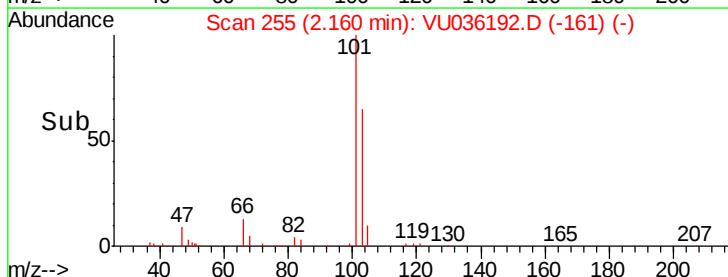
20000

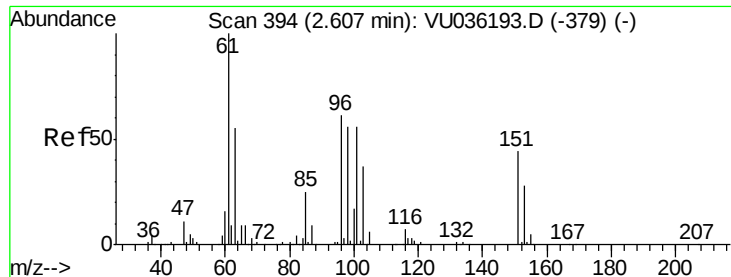
10000

0

2.10 2.15 2.20

Time-->





#10

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

Concen: 1.103 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00102

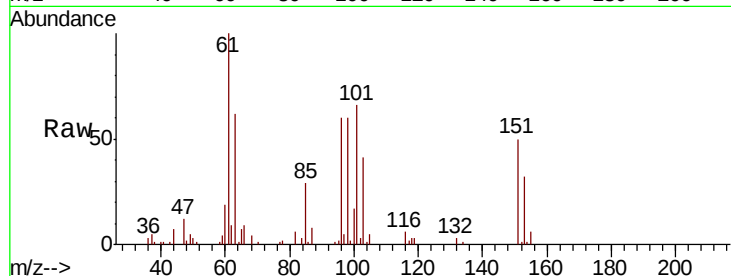
Tot Ion:101 Resp: 22282

Ion Ratio Lower Upper

101 100

85 43.9 35.0 52.6

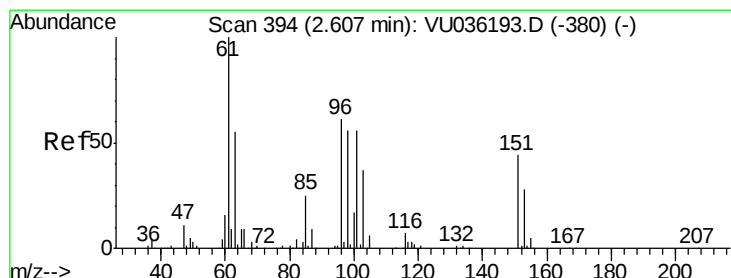
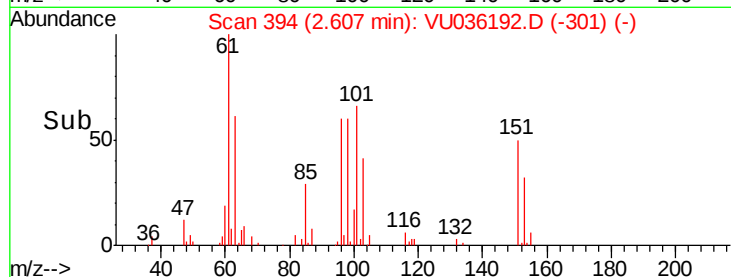
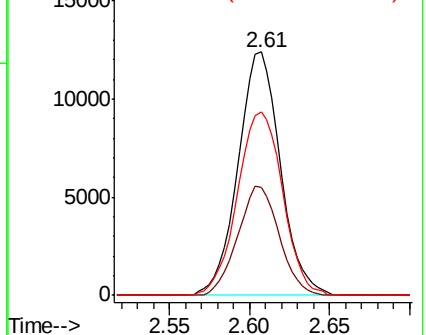
151 80.8 63.9 95.9



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: 1.027 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

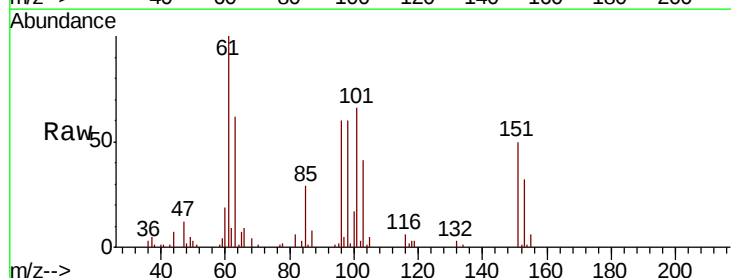
Tgt Ion: 96 Resp: 19580

Ion Ratio Lower Upper

96 100

61 167.9 114.0 211.8

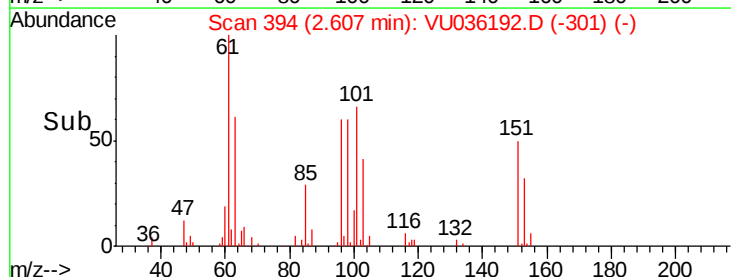
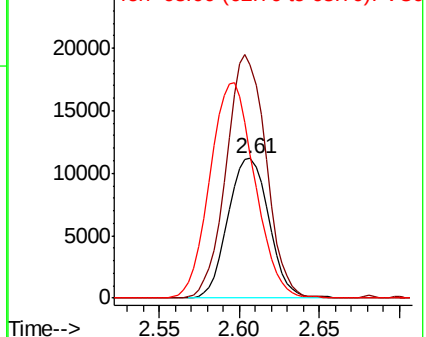
63 103.3 63.6 118.0

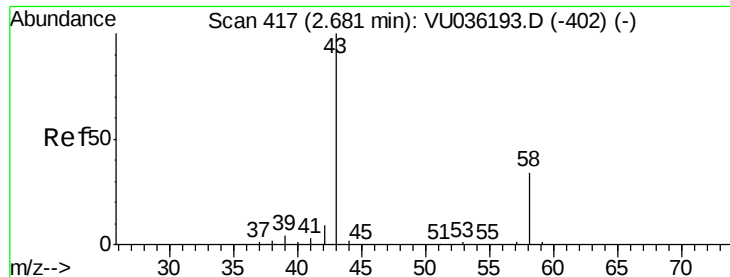


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 11.927 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

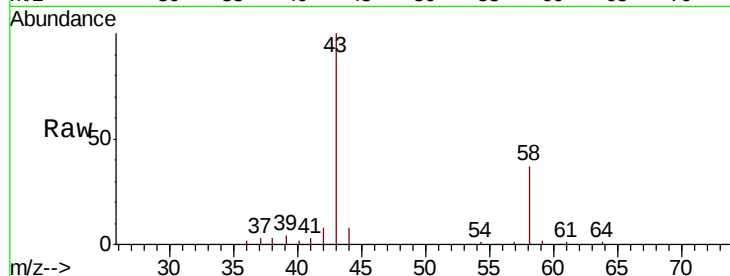
VSTD00102

Tot Ion: 43 Resp: 42701

Ion Ratio Lower Upper

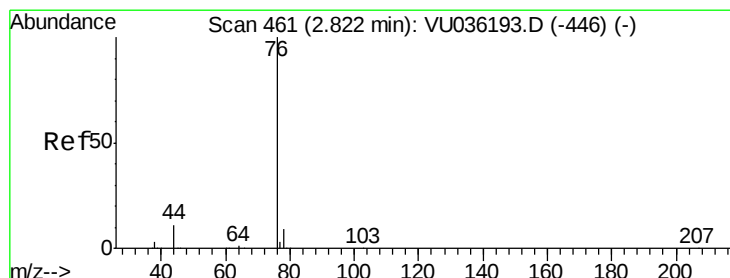
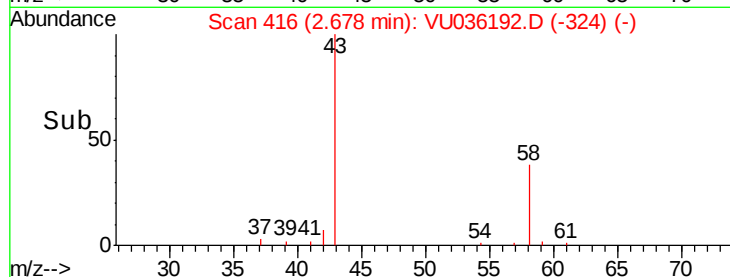
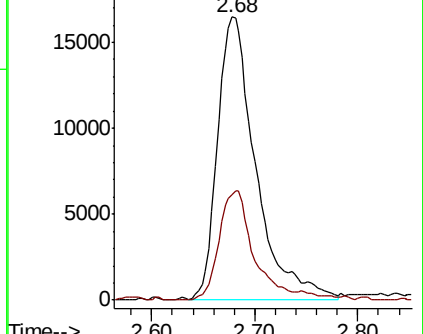
43 100

58 34.4 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU036192.D (-324) (-)

Ion 58.05 (57.75 to 58.75): VU036192.D (-324) (-)



#14

Carbon disulfide

Concen: 1.065 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036192.D

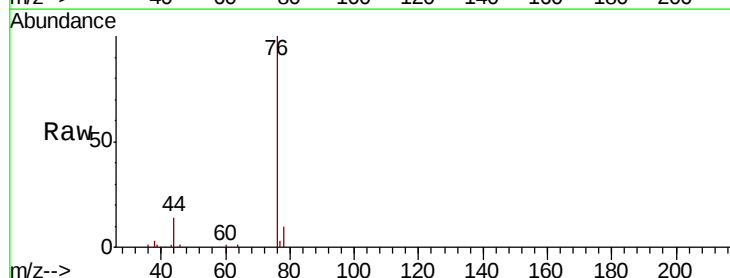
Acq: 13 Dec 2019 12:58

Tgt Ion: 76 Resp: 67233

Ion Ratio Lower Upper

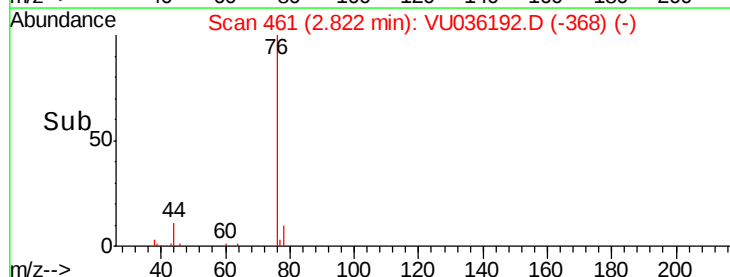
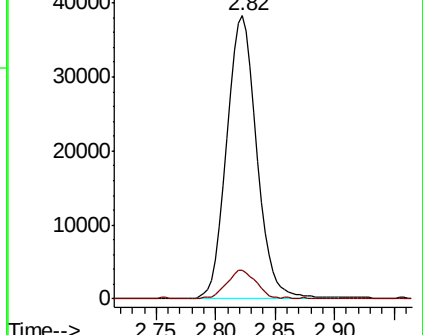
76 100

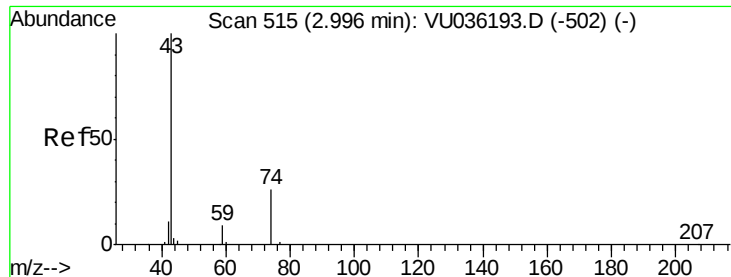
78 10.0 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU036192.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU036192.D (-368) (-)

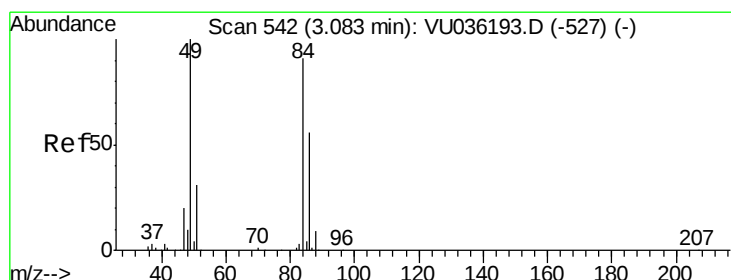
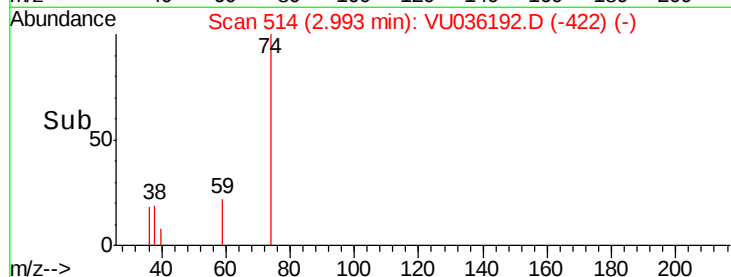
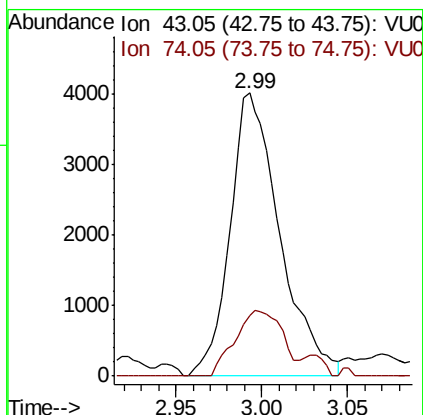
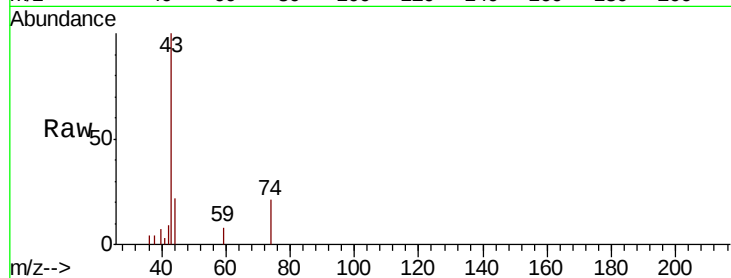




#15
Methyl Acetate
Concen: 1.048 ug/L
RT: 2.99 min Scan# 514
Delta R.T. -0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

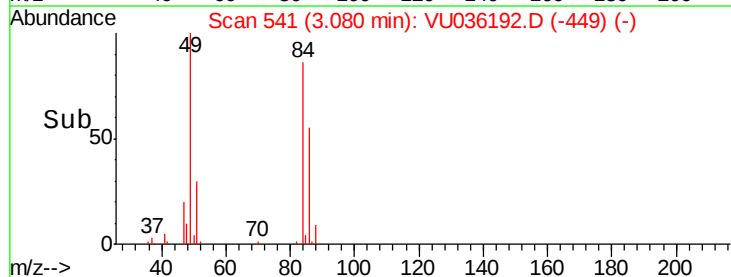
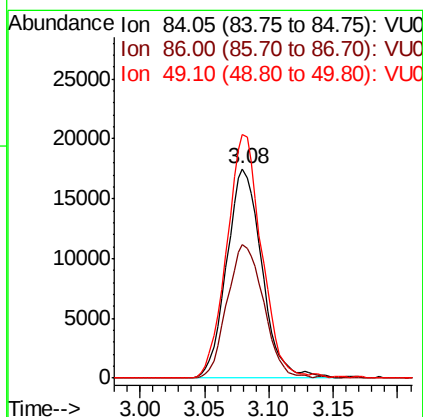
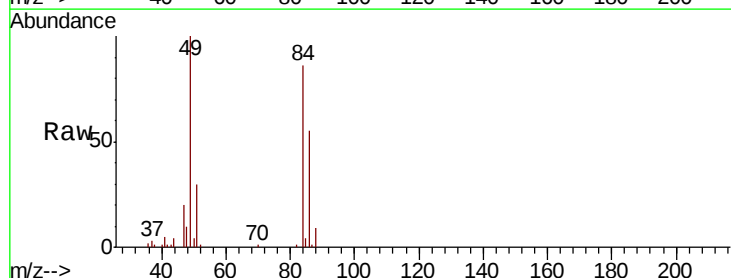
Instrument :
MSVOA_U
ClientSampleId :
VSTD00102

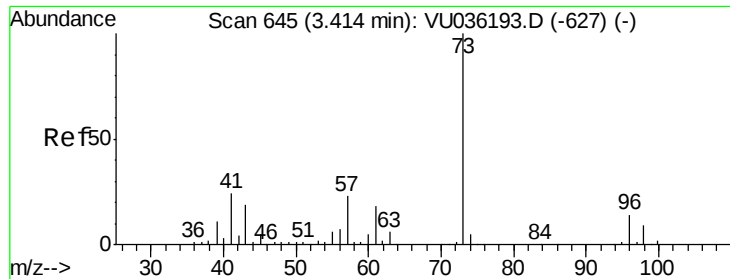
Tot Ion: 43 Resp: 8070
Ion Ratio Lower Upper
43 100
74 22.2 20.8 31.2



#16
Methylene chloride
Concen: 1.242 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

Tgt Ion: 84 Resp: 33218
Ion Ratio Lower Upper
84 100
86 63.6 43.0 79.8
49 116.2 77.3 143.5

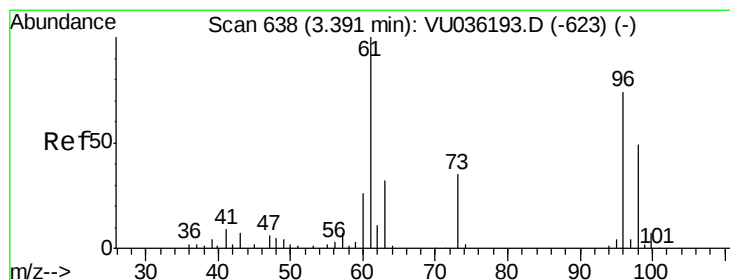
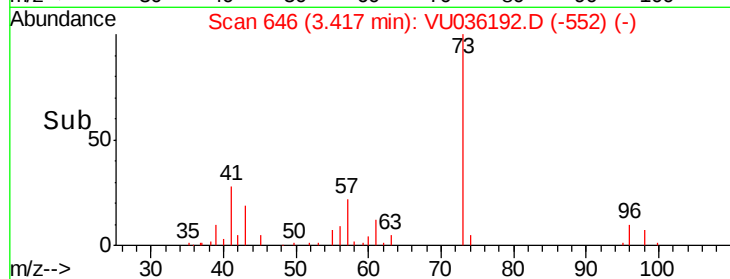
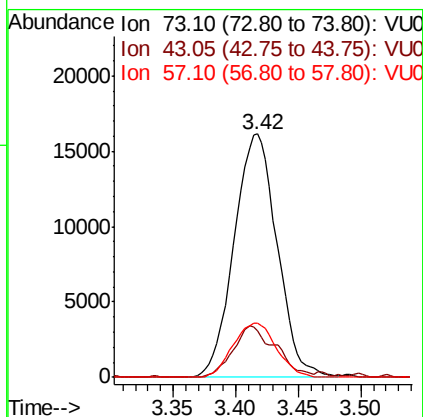
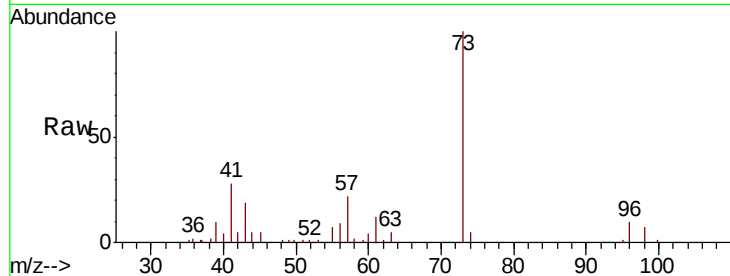




#17
Methvl tert-butvl Ether
Concen: 0.972 ug/L
RT: 3.42 min Scan# 646
Delta R.T. 0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

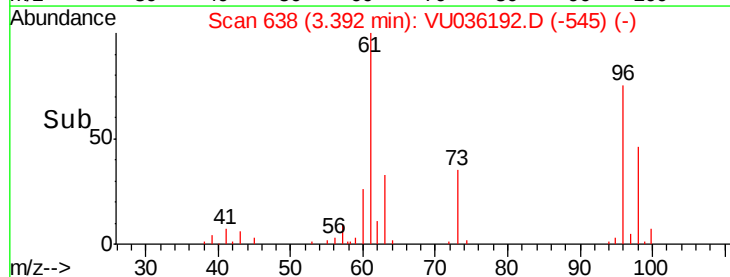
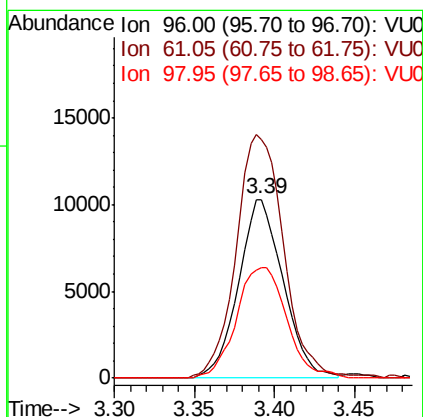
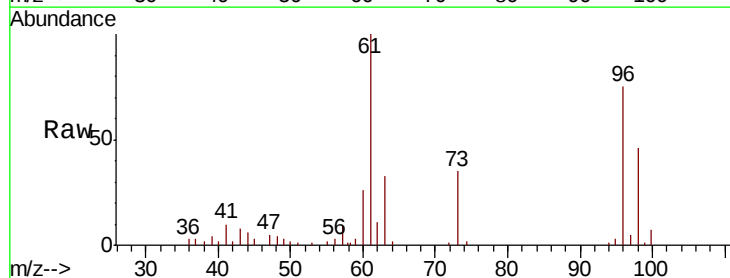
Instrument :
MSVOA_U
ClientSampleId :
VSTD00102

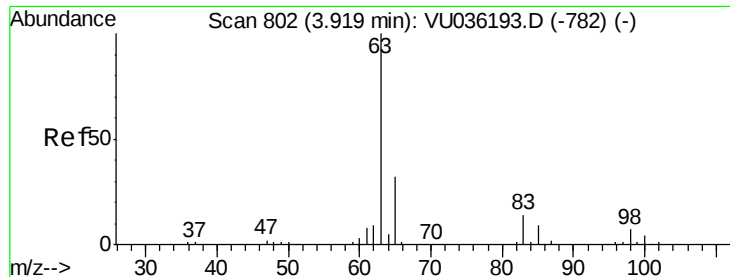
Tot Ion: 73 Resp: 38550
Ion Ratio Lower Upper
73 100
43 20.9 15.3 22.9
57 22.4 18.2 27.2



#18
trans-1,2-Dichloroethene
Concen: 0.994 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

Tgt Ion: 96 Resp: 19674
Ion Ratio Lower Upper
96 100
61 133.8 94.8 176.2
98 62.1 46.8 86.8

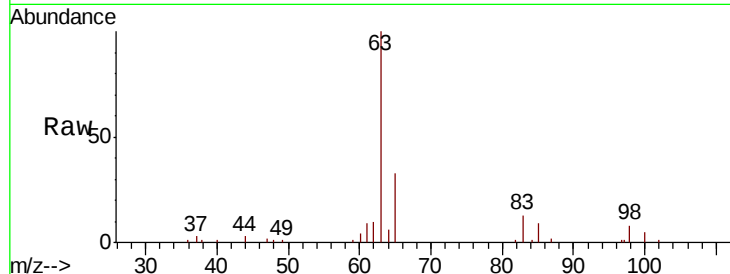




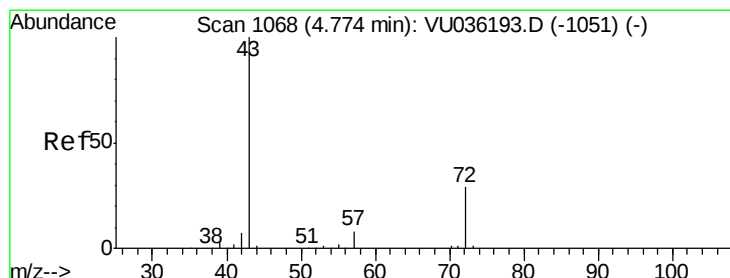
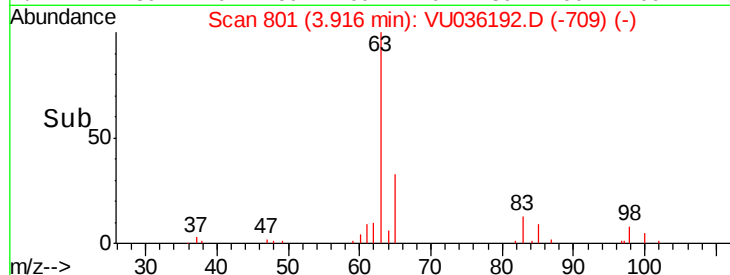
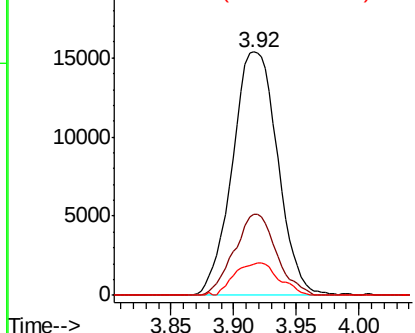
#19
 1,1-Dichloroethane
 Concen: 1.059 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00102

Tot Ion: 63 Resp: 38543
 Ion Ratio Lower Upper
 63 100
 65 33.4 22.6 42.0
 83 13.0 9.7 18.1

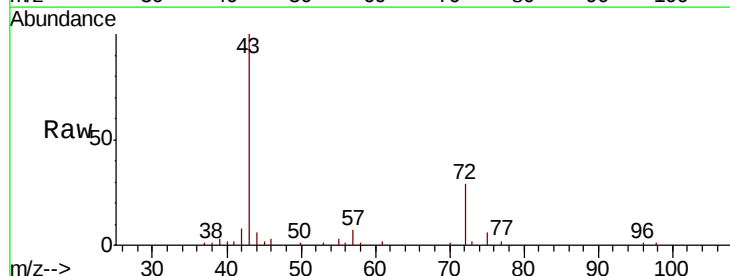


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

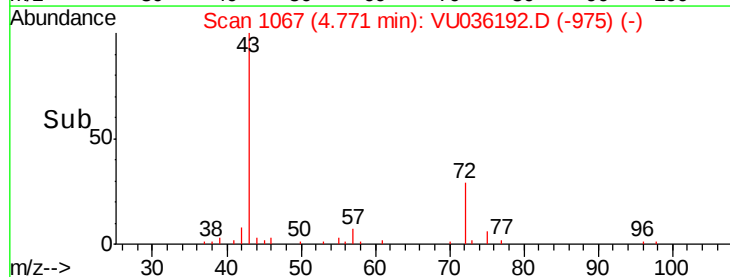
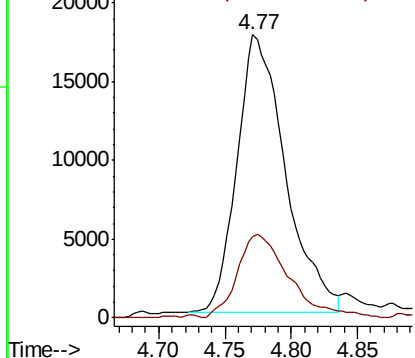


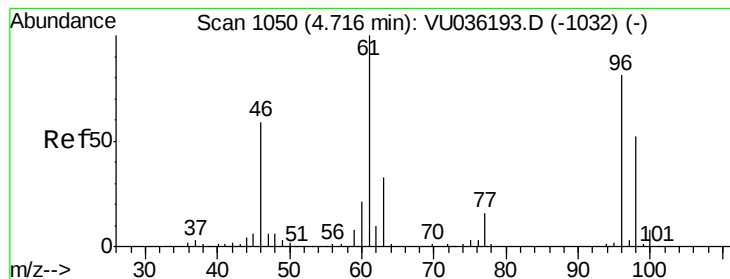
#21
 2-Butanone
 Concen: 9.375 ug/L
 RT: 4.77 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

Tgt Ion: 43 Resp: 44628
 Ion Ratio Lower Upper
 43 100
 72 32.5 14.4 43.4



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: 1.049 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00102

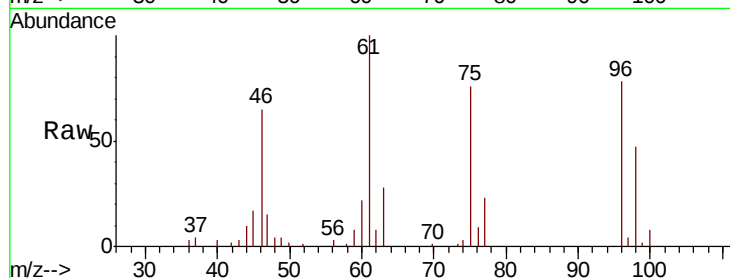
Tot Ion: 96 Resp: 21346

Ion Ratio Lower Upper

96 100

61 128.3 86.7 161.1

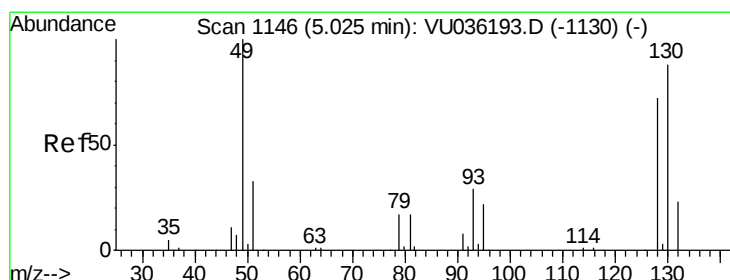
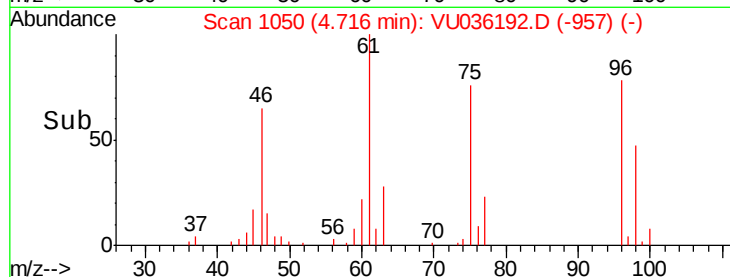
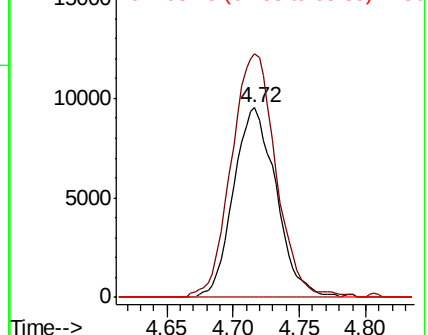
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036192.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036192.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036192.D (-957) (-)



#23

Bromochloromethane

Concen: 1.078 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Tgt Ion:128 Resp: 10920

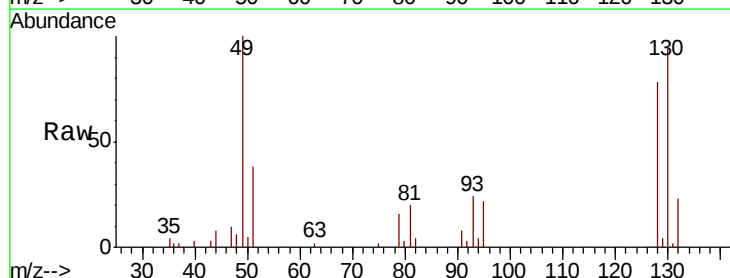
Ion Ratio Lower Upper

128 100

49 128.7 97.6 181.4

130 121.0 85.9 159.5

51 49.3 37.0 55.4

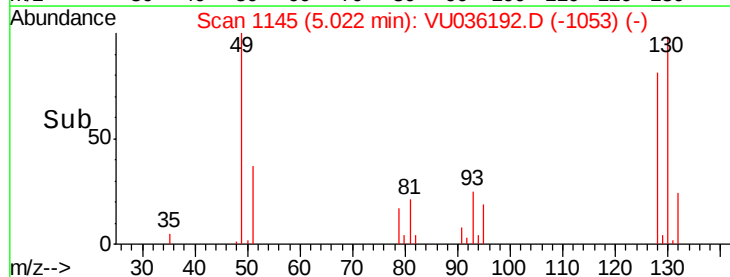
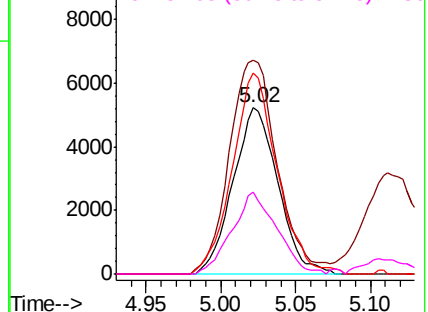


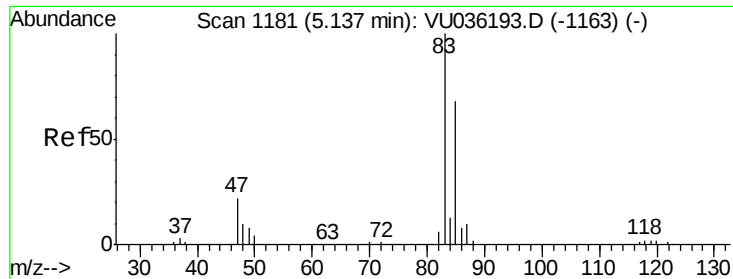
Abundance Ion 127.90 (127.60 to 128.60): VU036192.D (-1053) (-)

Ion 49.10 (48.80 to 49.80): VU036192.D (-1053) (-)

Ion 129.95 (129.65 to 130.65): VU036192.D (-1053) (-)

Ion 51.05 (50.75 to 51.75): VU036192.D (-1053) (-)

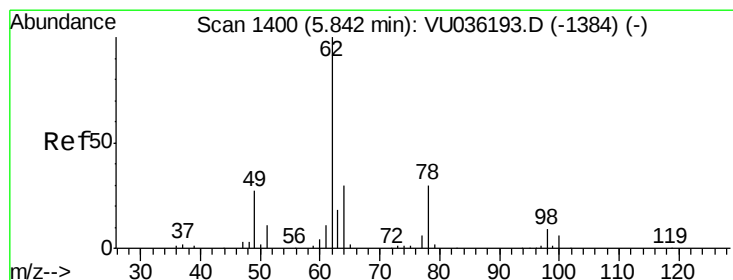
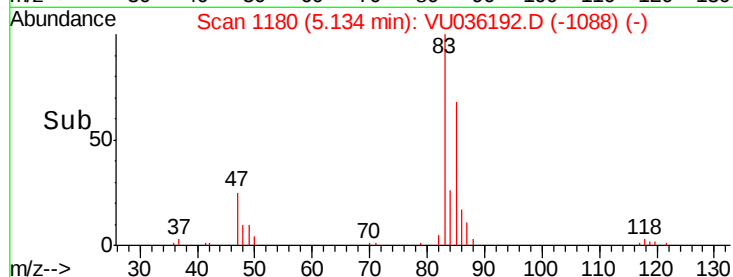
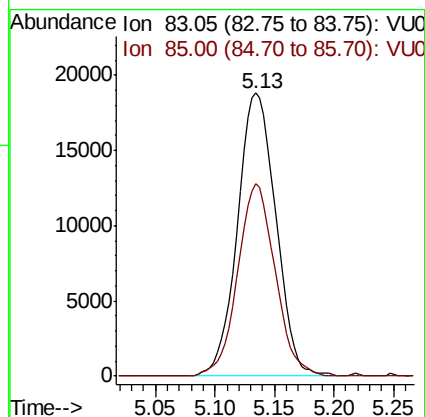
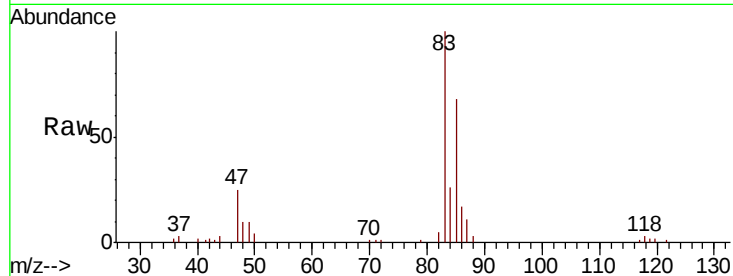




#25
Chloroform
Concen: 1.097 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

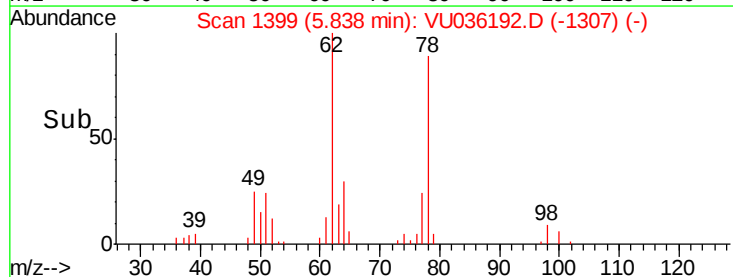
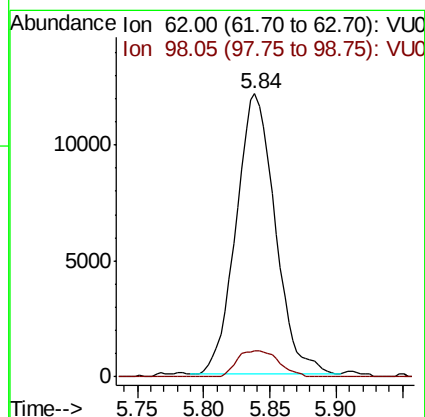
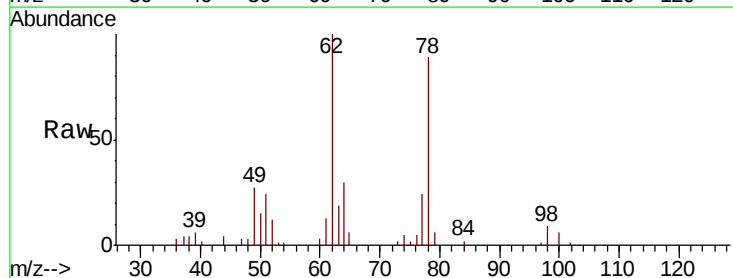
Instrument :
MSVOA_U
ClientSampleId :
VSTD00102

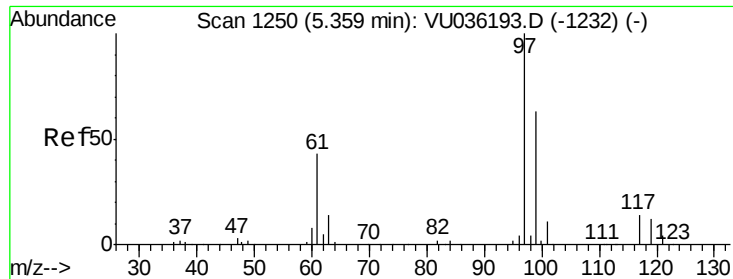
Tot Ion: 83 Resp: 42119
Ion Ratio Lower Upper
83 100
85 68.2 47.5 88.1



#27
1,2-Dichloroethane
Concen: 1.100 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

Tgt Ion: 62 Resp: 24855
Ion Ratio Lower Upper
62 100
98 9.1 7.3 10.9

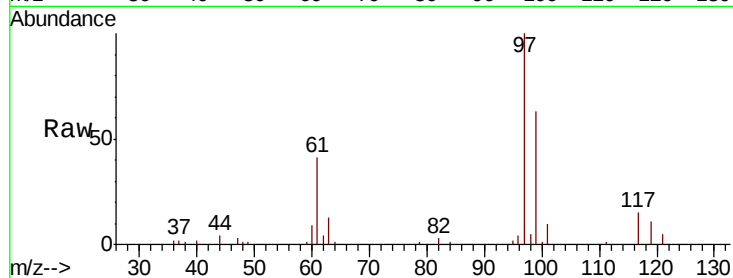




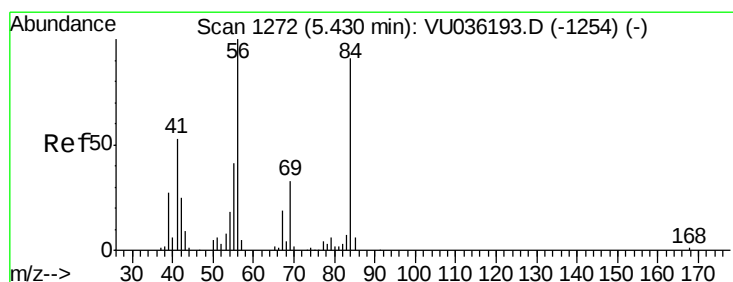
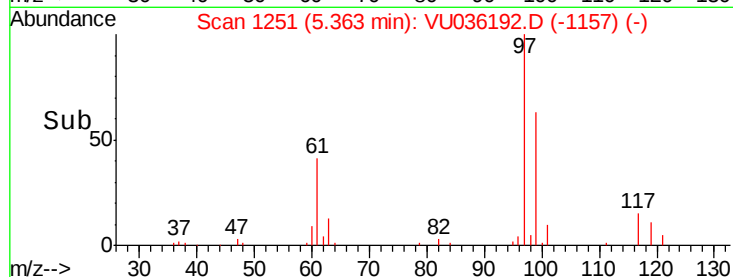
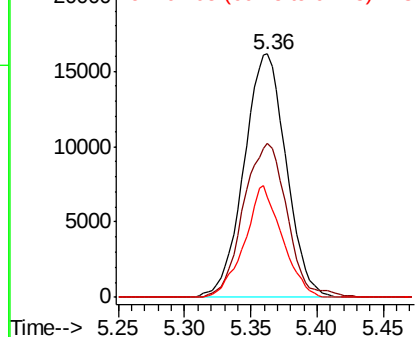
#29
1,1,1-Trichloroethane
Concen: 1.071 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD00102

Tot Ion: 97 Resp: 35788
Ion Ratio Lower Upper
97 100
99 65.5 51.4 77.2
61 40.8 35.0 52.6

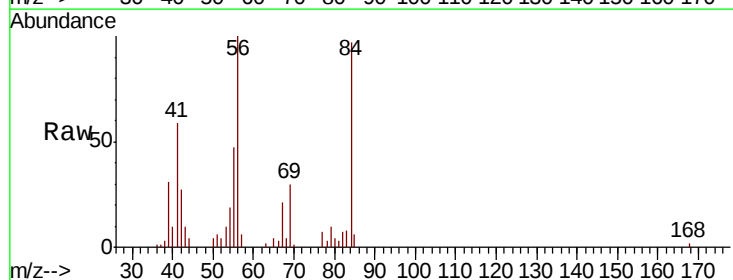


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

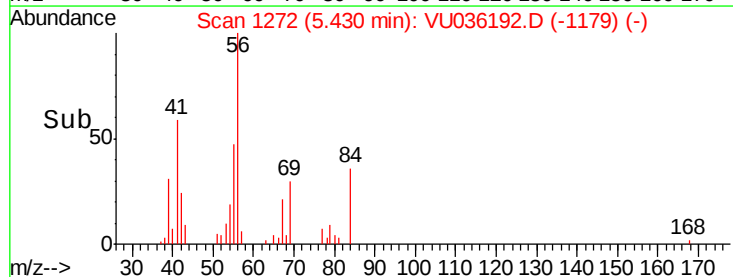
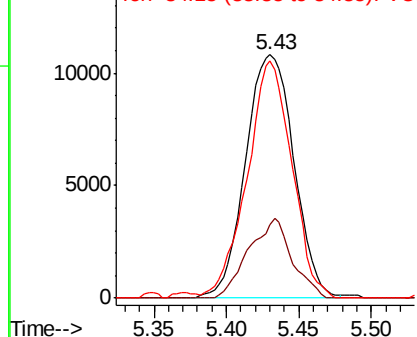


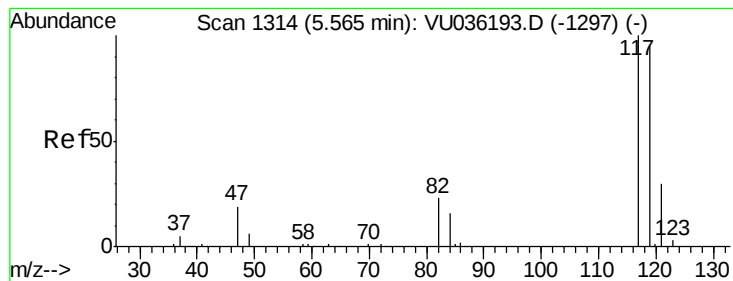
#30
Cyclohexane
Concen: 0.886 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

Tgt Ion: 56 Resp: 25140
Ion Ratio Lower Upper
56 100
69 29.2 25.6 38.4
84 90.2 73.0 109.4



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: 1.088 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

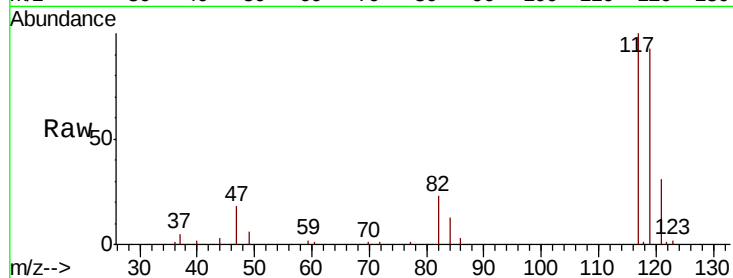
VSTD00102

Tot Ion:117 Resp: 32499

Ion Ratio Lower Upper

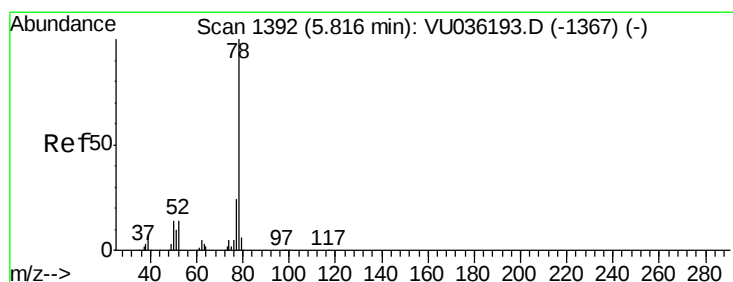
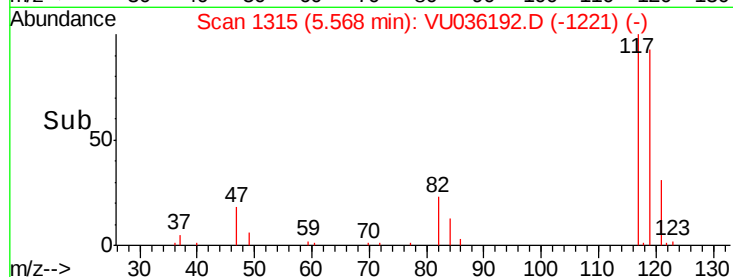
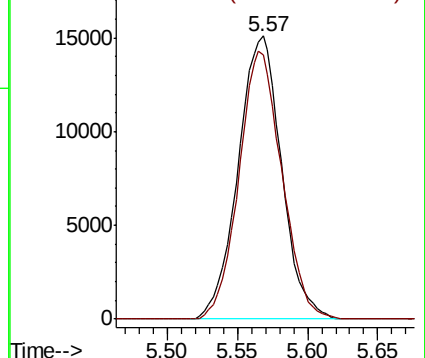
117 100

119 93.3 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.988 ug/L

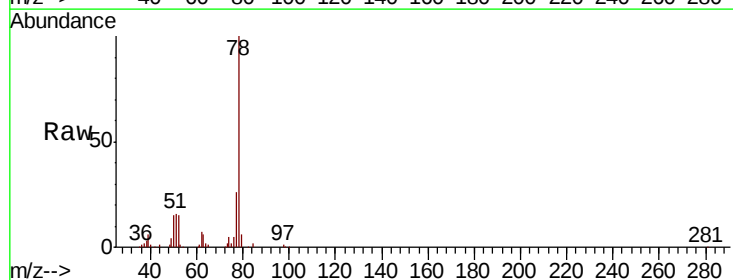
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

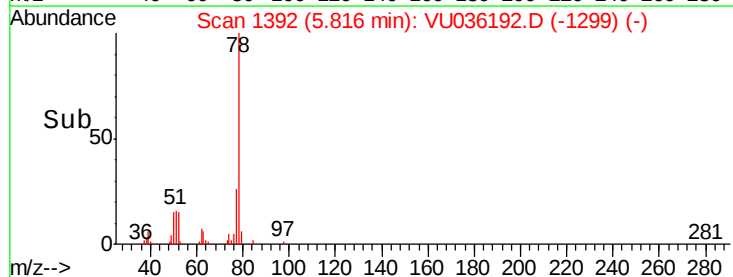
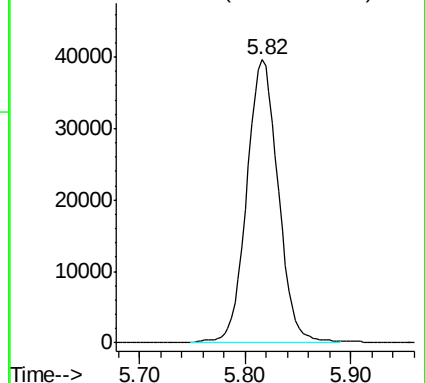
Lab File: VU036192.D

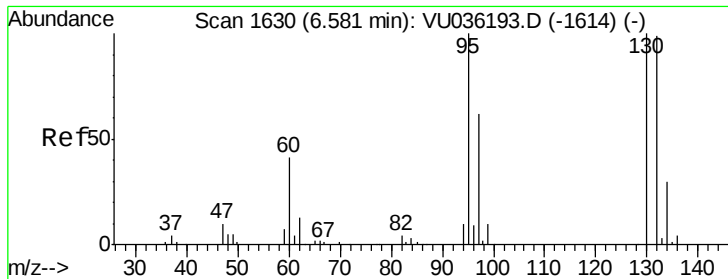
Acq: 13 Dec 2019 12:58

Tgt Ion: 78 Resp: 82492



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 1.048 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00102

Tot Ion: 95 Resp: 22500

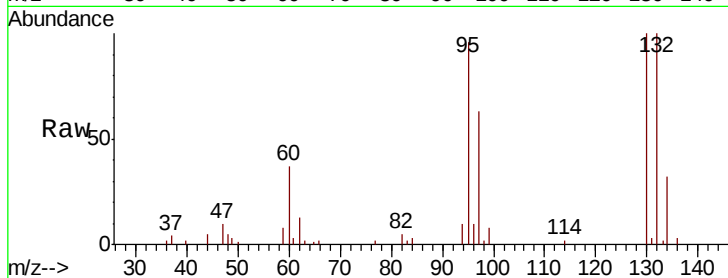
Ion Ratio Lower Upper

95 100

97 66.2 43.6 81.0

132 104.6 69.6 129.2

130 104.6 70.3 130.7

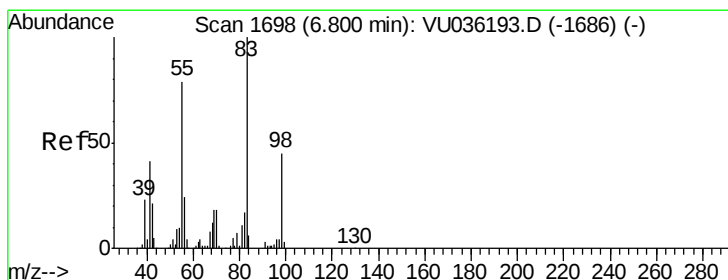
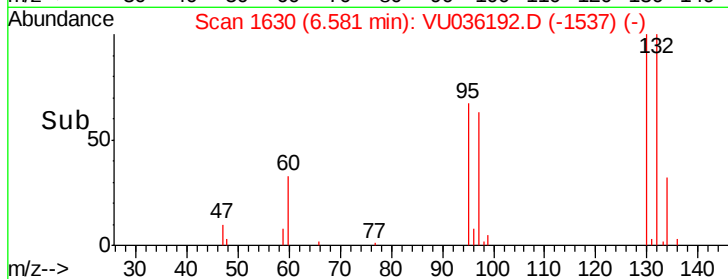
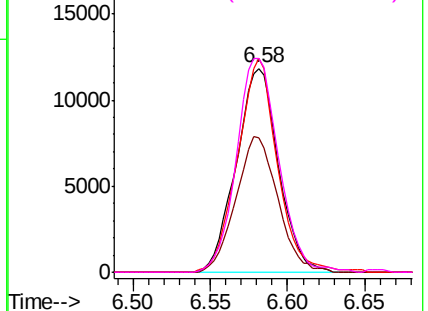


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.873 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

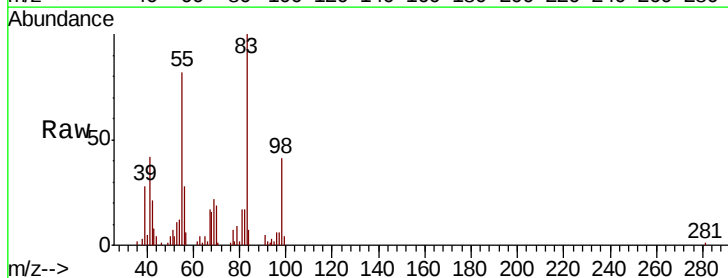
Tgt Ion: 83 Resp: 26631

Ion Ratio Lower Upper

83 100

55 84.1 62.6 94.0

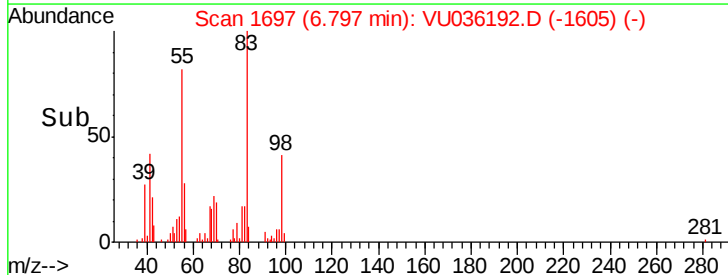
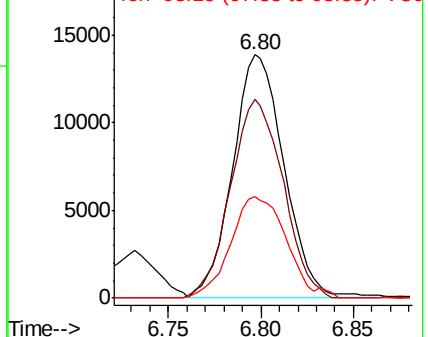
98 45.4 36.2 54.2

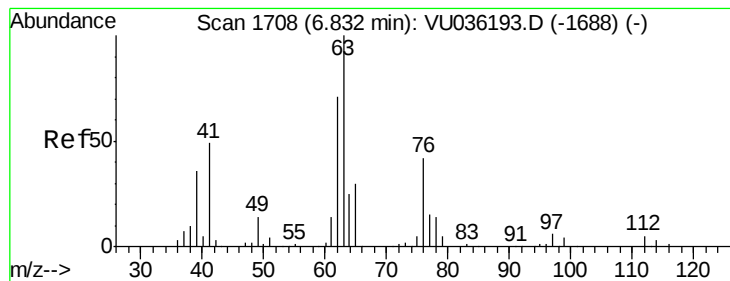


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 1.034 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampled :

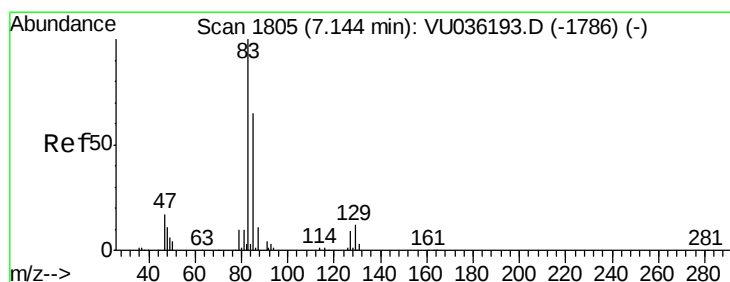
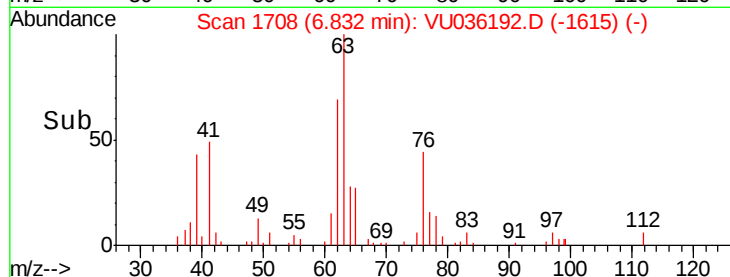
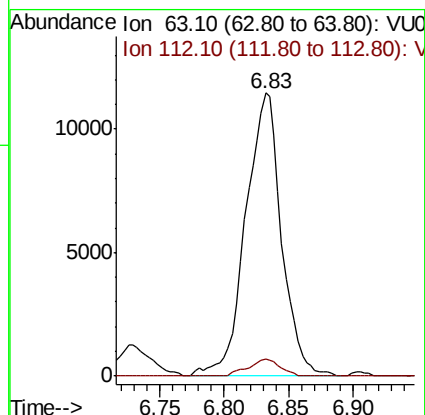
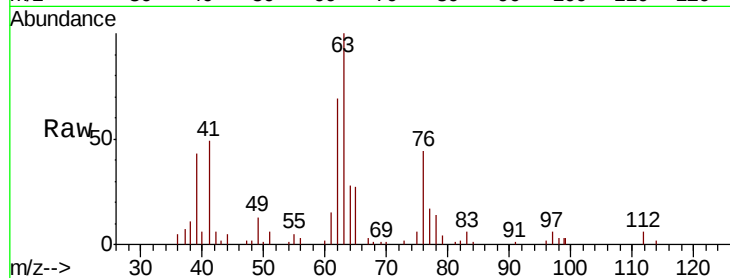
VSTD00102

Tot Ion: 63 Resp: 22177

Ion Ratio Lower Upper

63 100

112 5.2 3.8 5.8



#38

Bromodichloromethane

Concen: 1.044 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

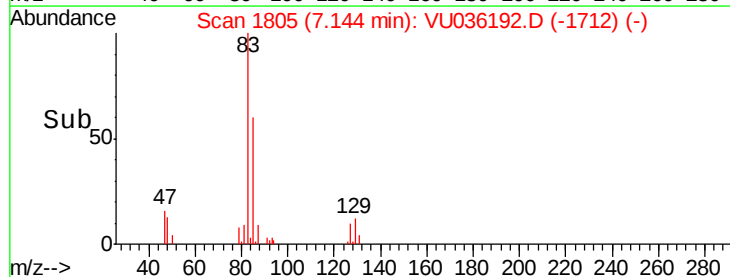
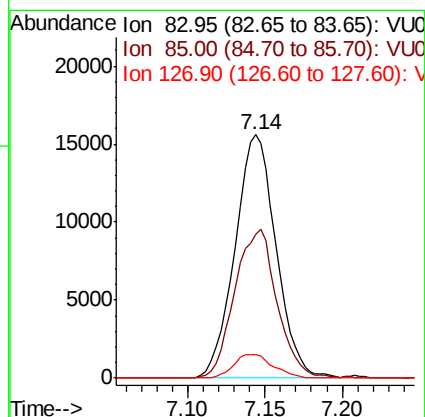
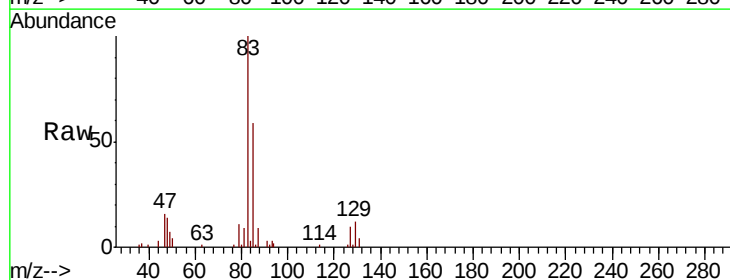
Tgt Ion: 83 Resp: 28775

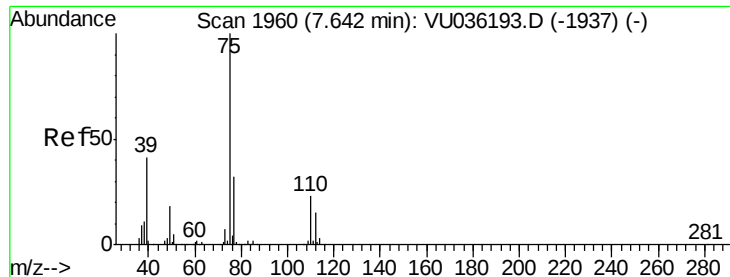
Ion Ratio Lower Upper

83 100

85 59.0 45.6 84.6

127 9.7 7.1 10.7

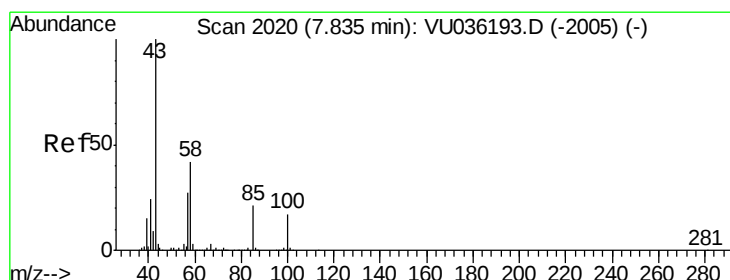
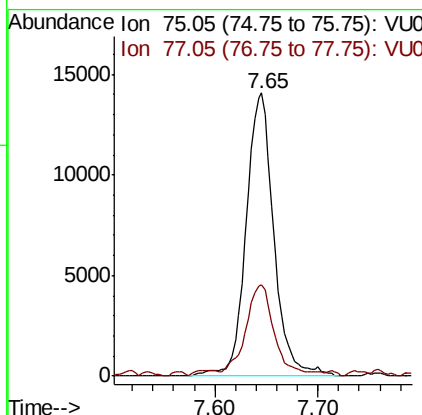
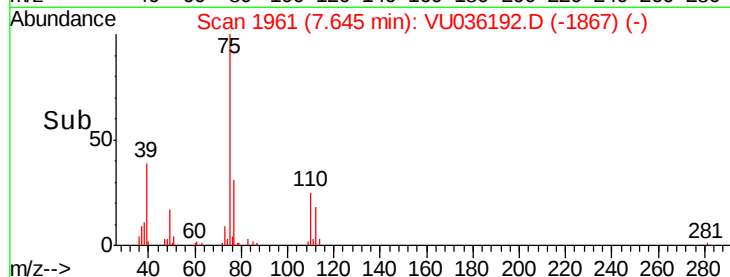
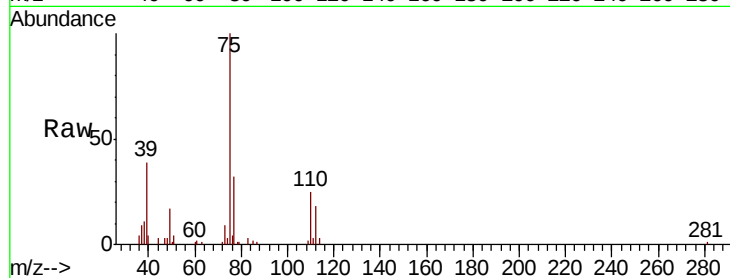




#39
 cis-1,3-Dichloropropene
 Concen: 0.919 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

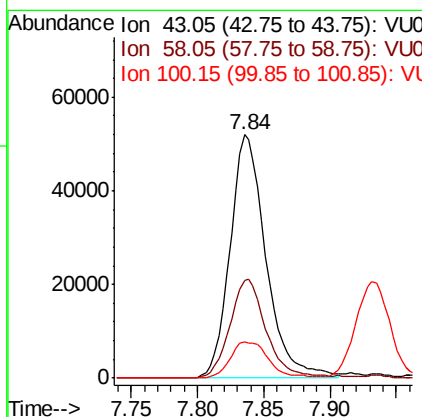
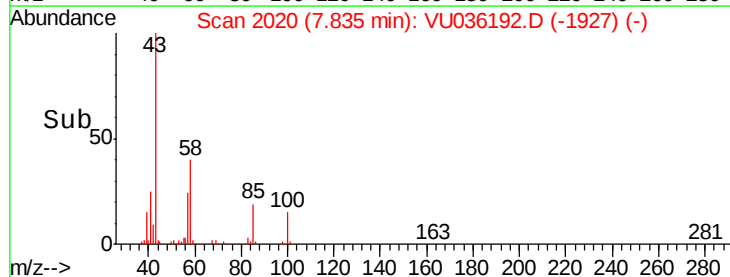
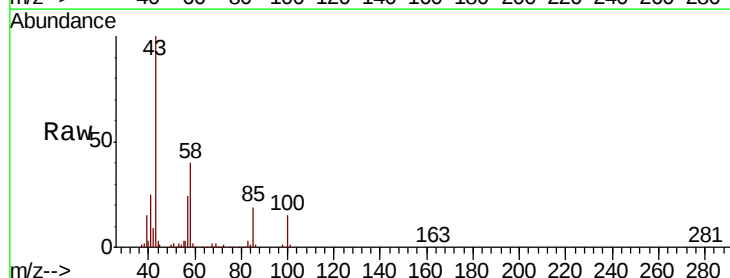
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00102

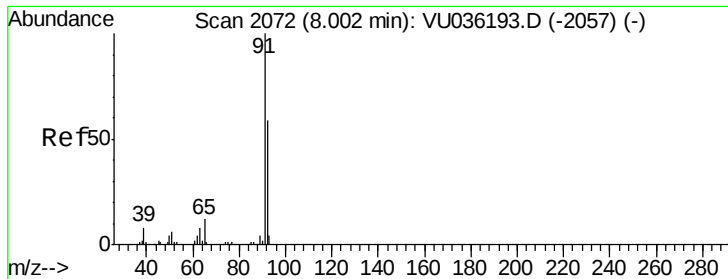
Tot Ion: 75 Resp: 26280
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 8.958 ug/L
 RT: 7.84 min Scan# 2020
 Delta R.T. 0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

Tgt Ion: 43 Resp: 97923
 Ion Ratio Lower Upper
 43 100
 58 40.9 33.3 49.9
 100 16.0 13.7 20.5





#42

Toluene

Concen: 0.976 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

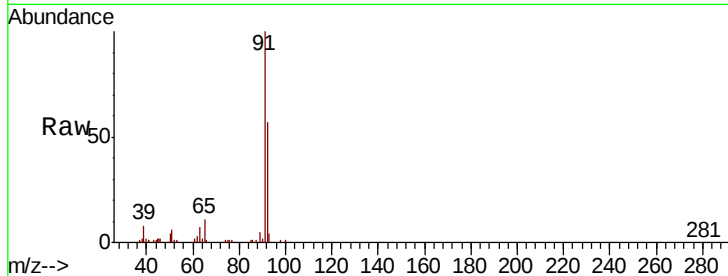
VSTD00102

Tot Ion: 91 Resp: 86122

Ion Ratio Lower Upper

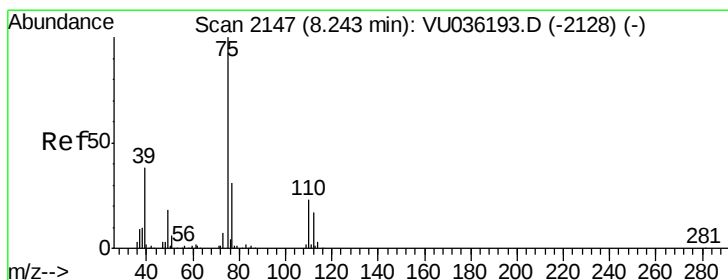
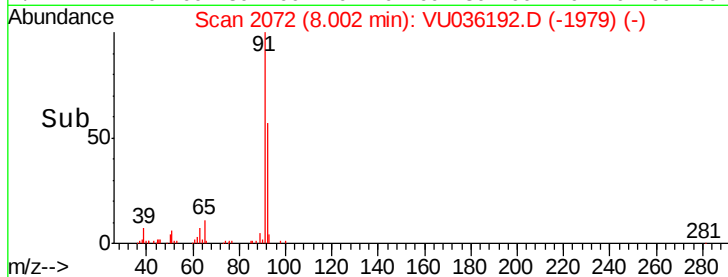
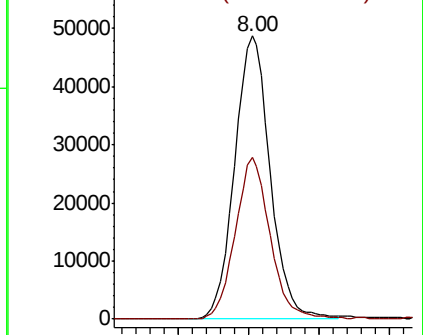
91 100

92 57.3 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU036193.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036193.D (-2057) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.940 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036192.D

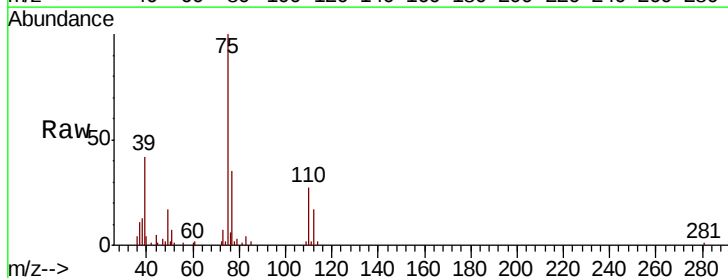
Acq: 13 Dec 2019 12:58

Tgt Ion: 75 Resp: 22661

Ion Ratio Lower Upper

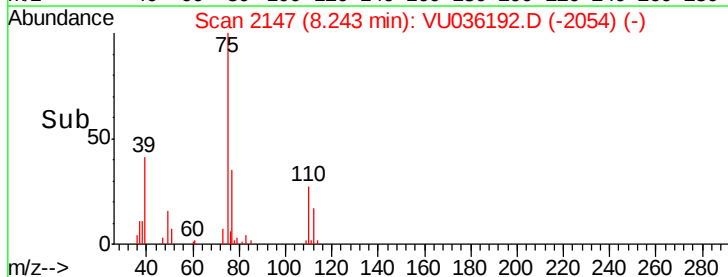
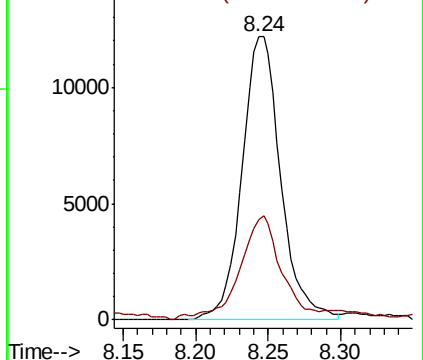
75 100

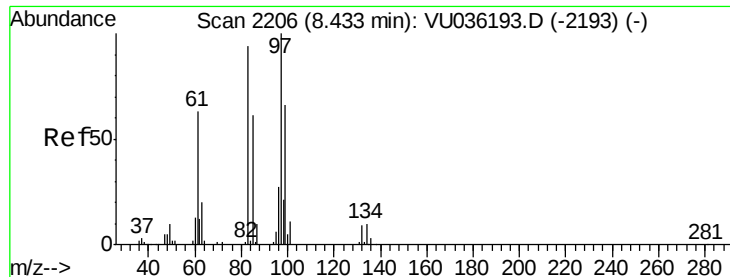
77 35.3 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU036193.D (-2128) (-)

Ion 77.05 (76.75 to 77.75): VU036193.D (-2128) (-)

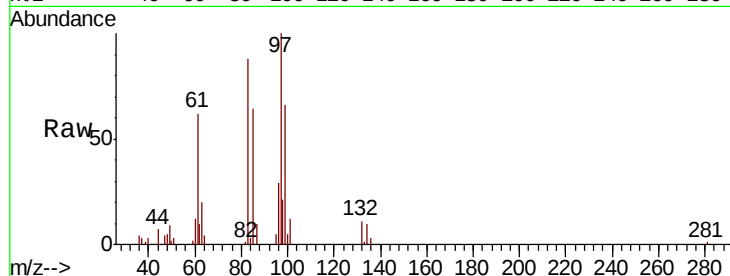




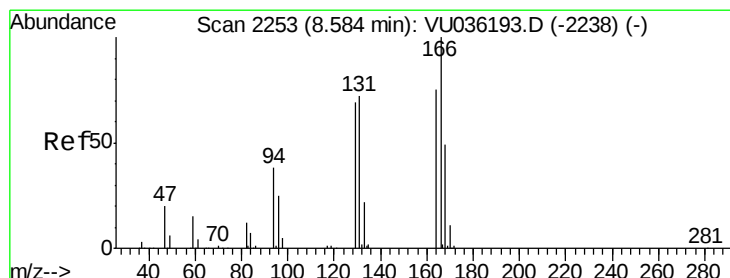
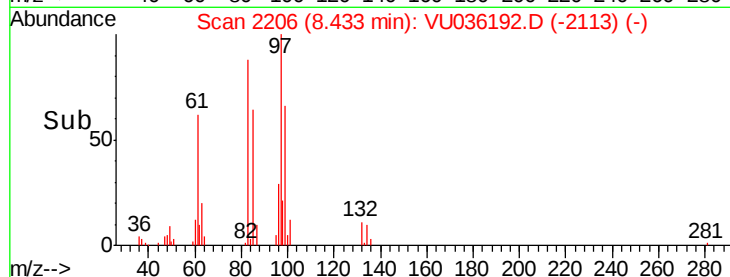
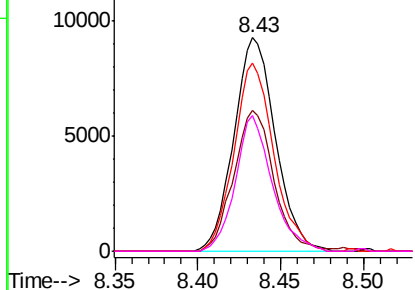
#45
 1,1,2-Trichloroethane
 Concen: 1.017 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00102

Tot Ion:	97	Resp:	16082
Ion	Ratio	Lower	Upper
97	100		
99	65.9	46.1	85.5
83	88.1	65.9	122.3
85	63.6	43.1	80.1

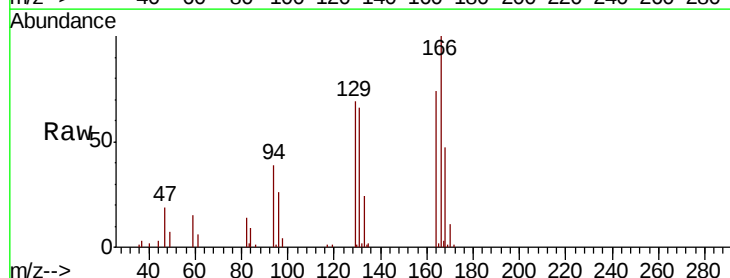


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

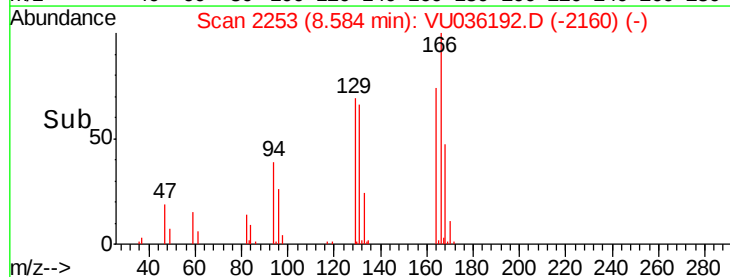
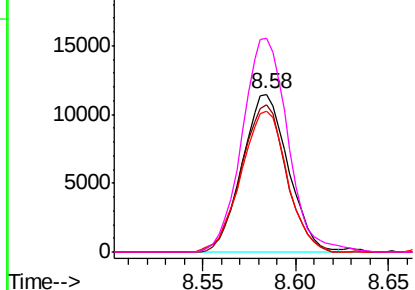


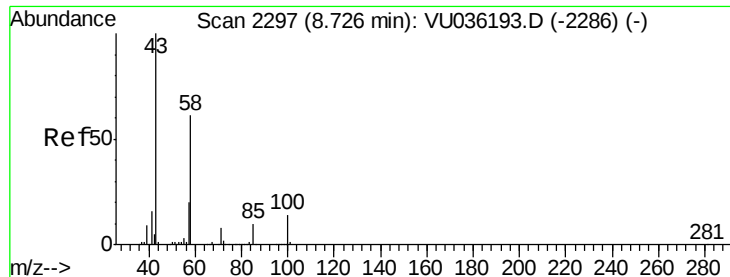
#47
 Tetrachloroethene
 Concen: 1.066 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

Tgt Ion:	164	Resp:	19953
Ion	Ratio	Lower	Upper
164	100		
129	93.2	64.2	119.2
131	89.6	66.6	123.8
166	135.3	93.1	172.9



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

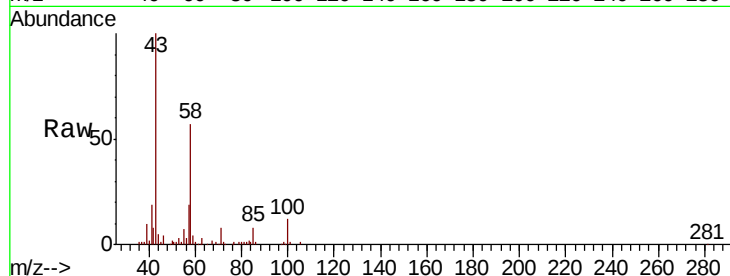




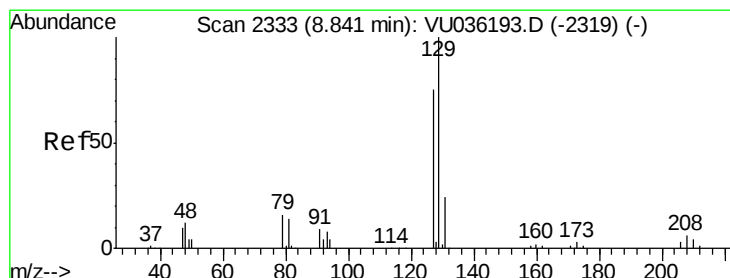
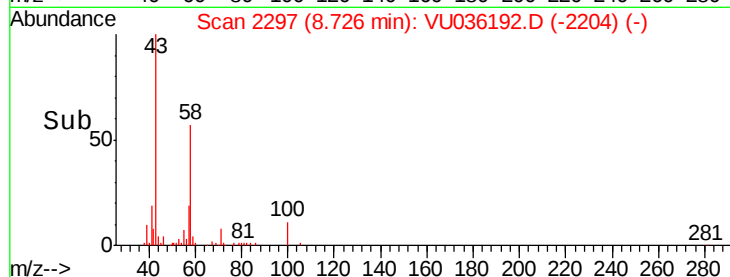
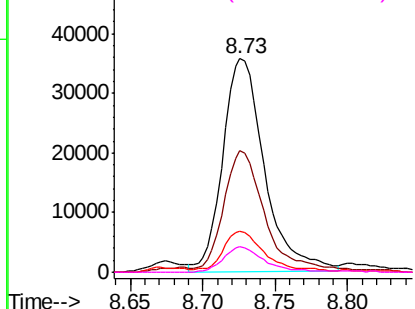
#48
2-Hexanone
Concen: 8.928 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD00102

Tot Ion: 43 Resp: 71893
Ion Ratio Lower Upper
43 100
58 56.5 46.2 69.2
57 18.0 16.2 24.4
100 11.6 10.2 15.4

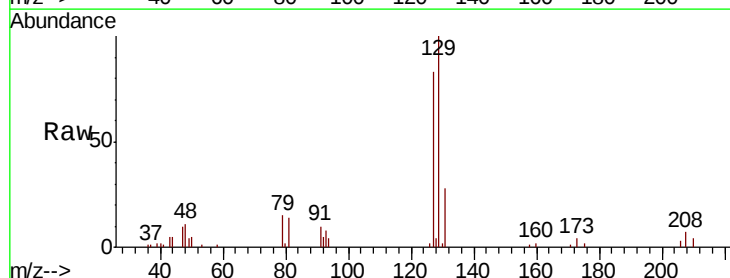


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

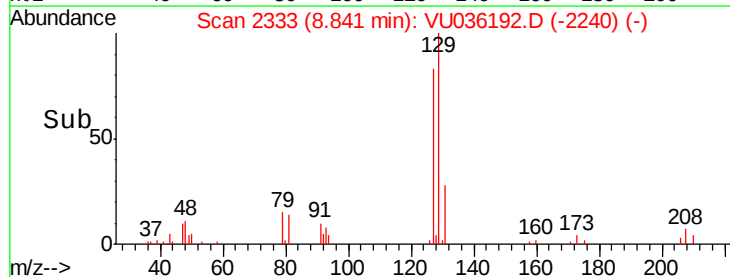
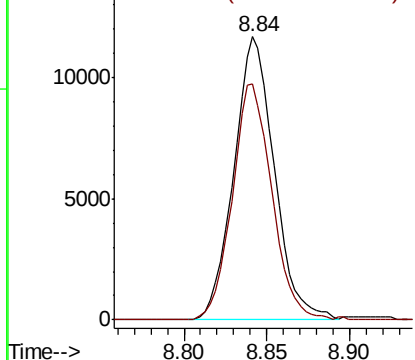


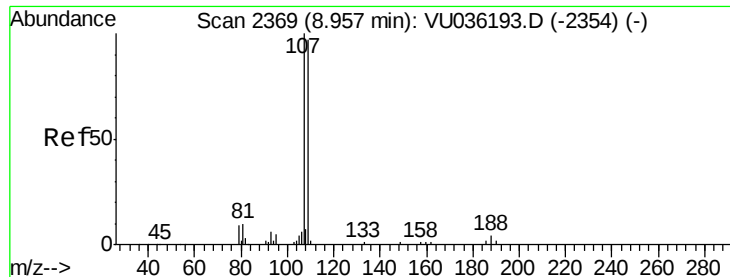
#49
Dibromochloromethane
Concen: 1.002 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

Tgt Ion: 129 Resp: 19821
Ion Ratio Lower Upper
129 100
127 83.4 52.6 97.6



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

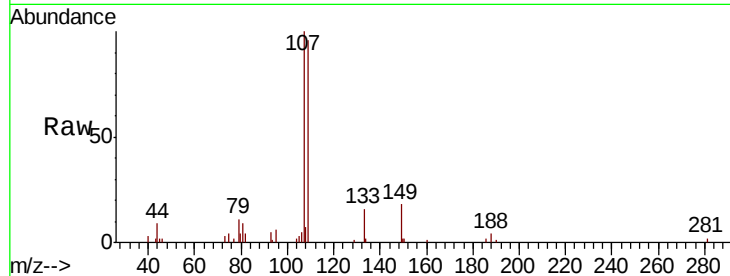




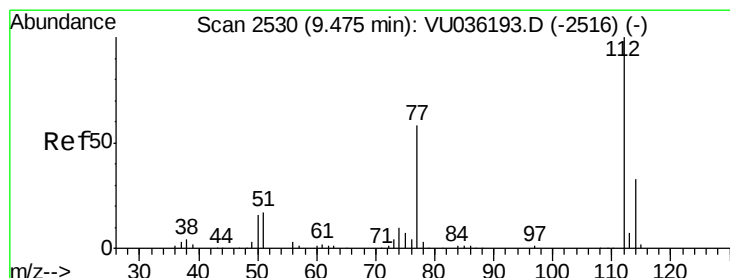
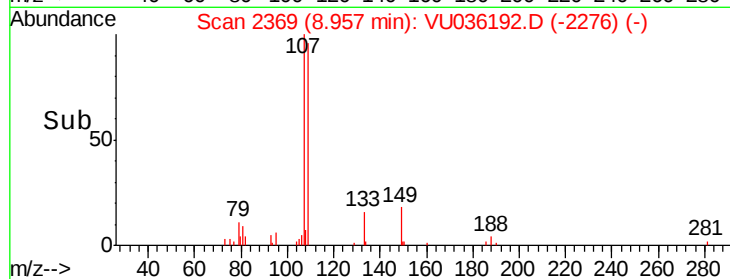
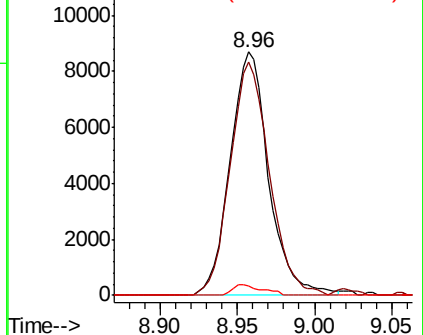
#50
1,2-Dibromoethane
Concen: 1.009 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD00102

Tot Ion:107 Resp: 15008
Ion Ratio Lower Upper
107 100
109 95.7 67.5 125.4
188 3.7 3.1 4.7

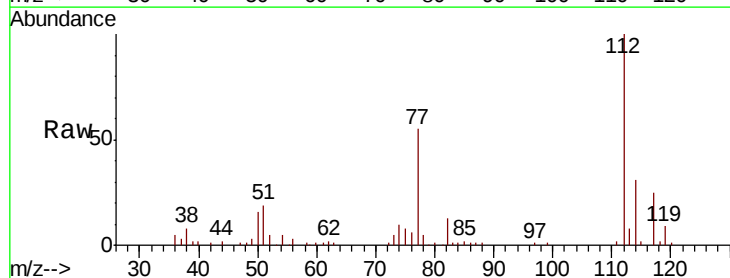


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

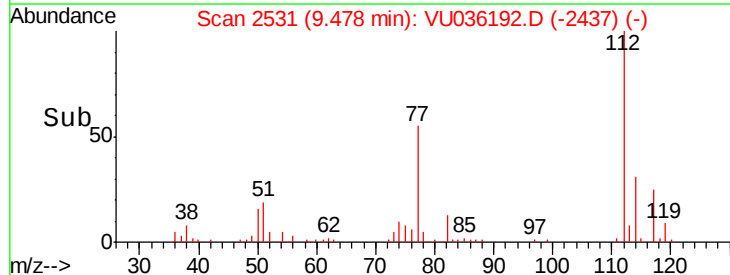
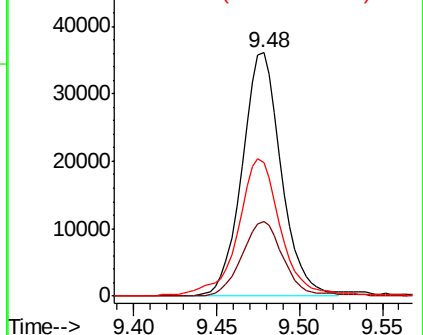


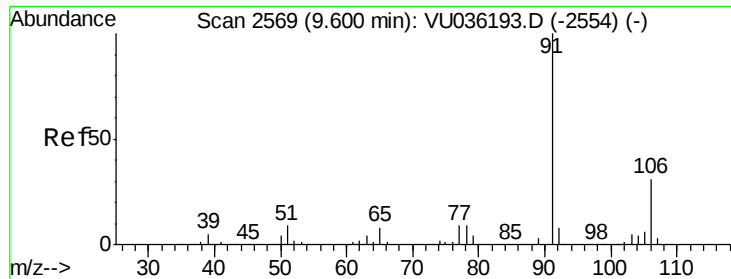
#51
Chlorobenzene
Concen: 1.026 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU036192.D
Acq: 13 Dec 2019 12:58

Tgt Ion:112 Resp: 59266
Ion Ratio Lower Upper
112 100
114 30.9 23.2 43.2
77 55.1 46.5 69.7



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: 0.929 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

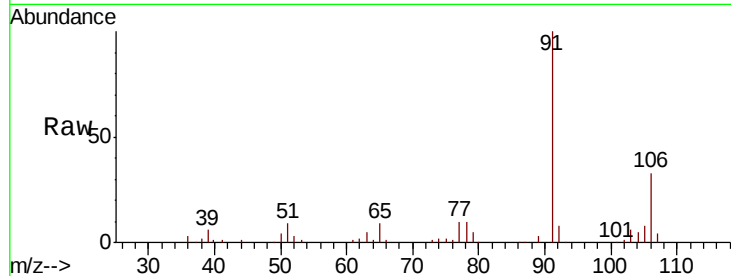
VSTD00102

Tot Ion: 91 Resp: 80459

Ion Ratio Lower Upper

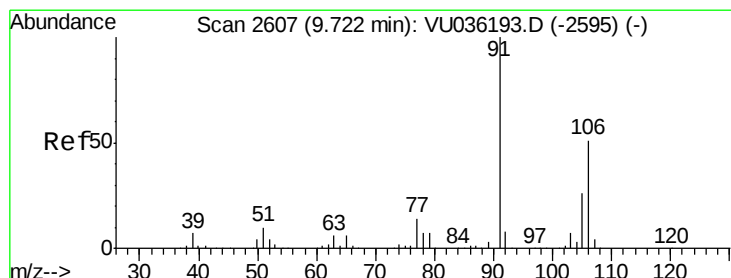
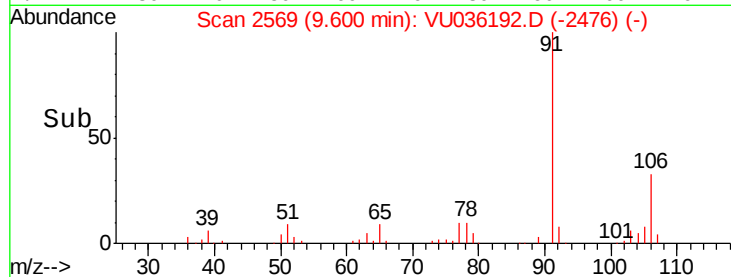
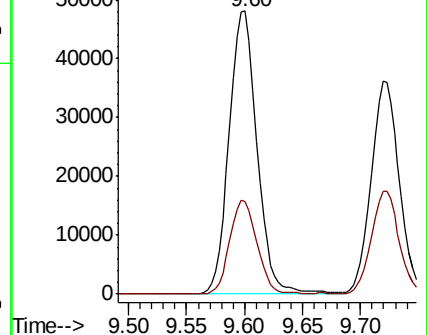
91 100

106 32.7 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU036192.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036192.D (-2476) (-)



#53

m,p-Xylene

Concen: 0.869 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036192.D

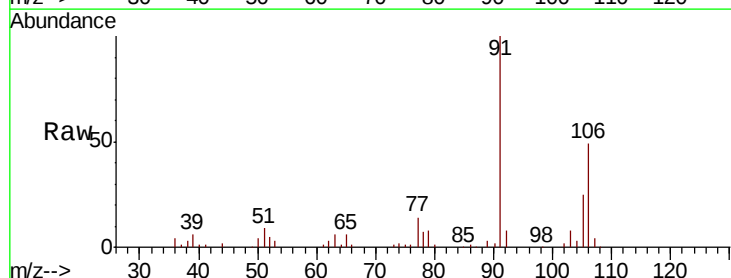
Acq: 13 Dec 2019 12:58

Tgt Ion: 106 Resp: 29591

Ion Ratio Lower Upper

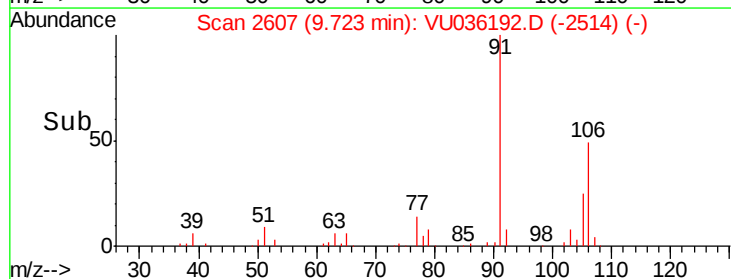
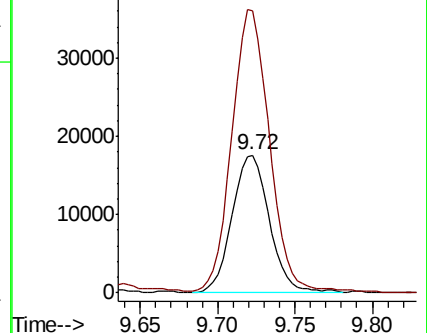
106 100

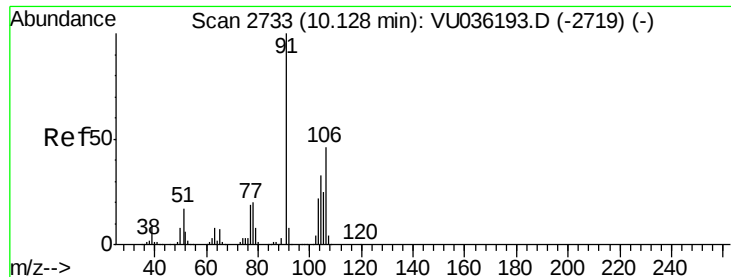
91 205.0 138.7 257.7



Abundance Ion 106.15 (105.85 to 106.85): VU036192.D (-2514) (-)

Ion 91.15 (90.85 to 91.85): VU036192.D (-2595) (-)





#54

o-Xylene

Concen: 0.883 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

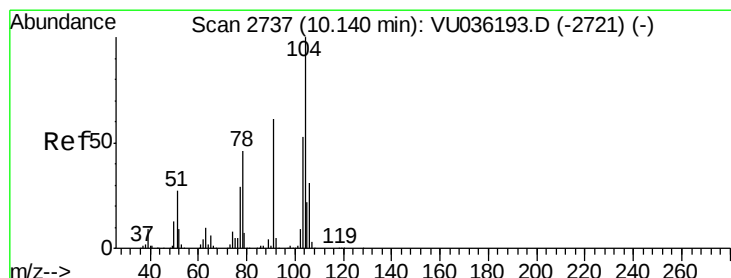
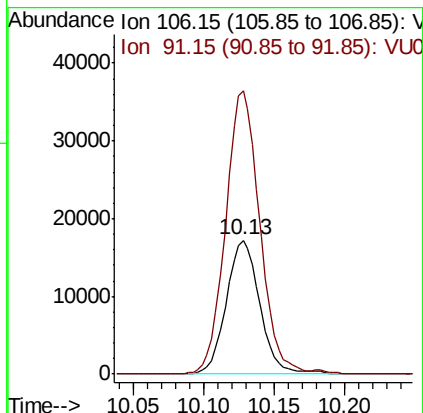
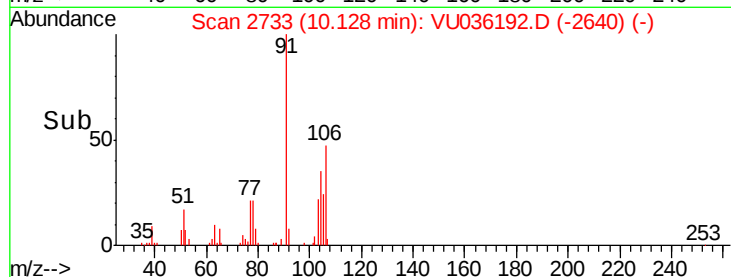
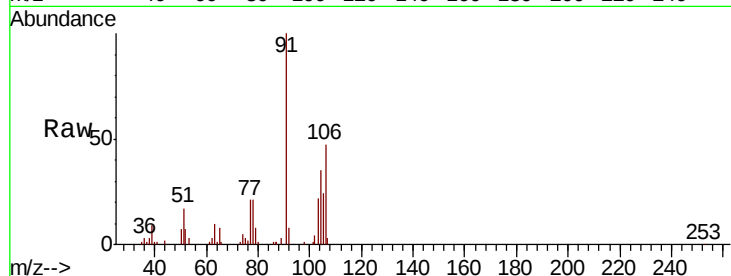
VSTD00102

Tot Ion:106 Resp: 28673

Ion Ratio Lower Upper

106 100

91 211.6 152.8 283.8



#55

Styrene

Concen: 0.881 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036192.D

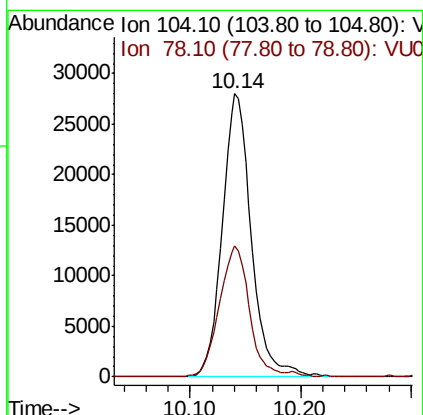
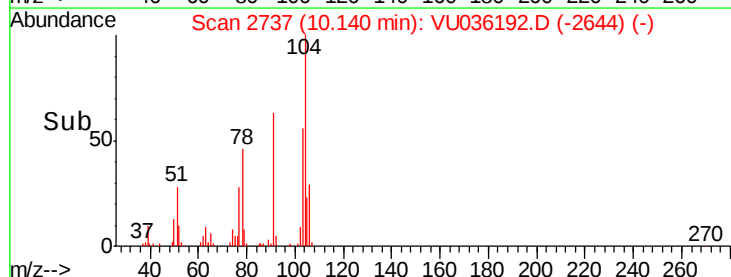
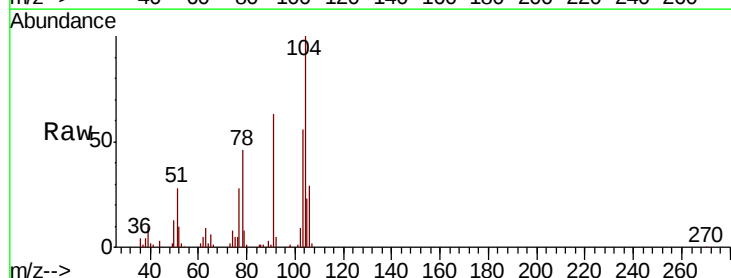
Acq: 13 Dec 2019 12:58

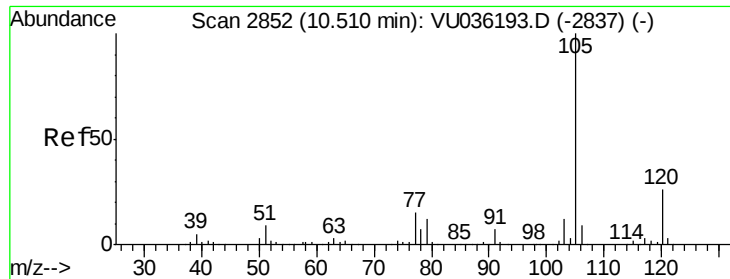
Tgt Ion:104 Resp: 50973

Ion Ratio Lower Upper

104 100

78 46.3 32.1 59.5





#56

Isopropylbenzene

Concen: 0.877 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleID :

VSTD00102

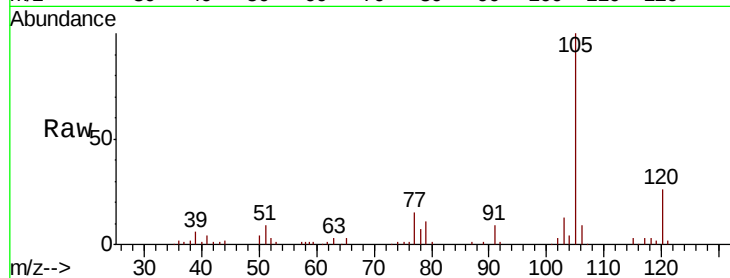
Tot Ion:105 Resp: 72637

Ion Ratio Lower Upper

105 100

120 24.9 21.0 31.6

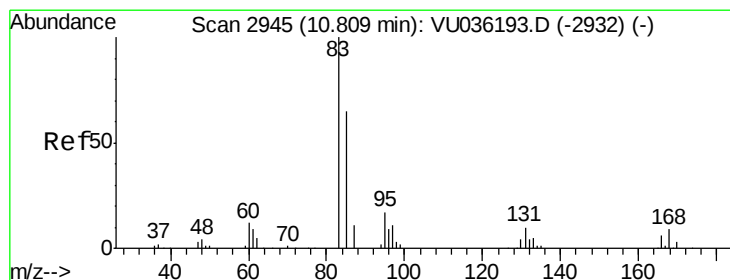
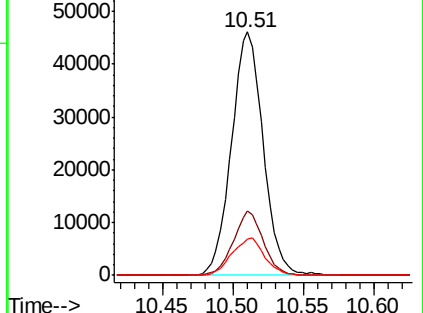
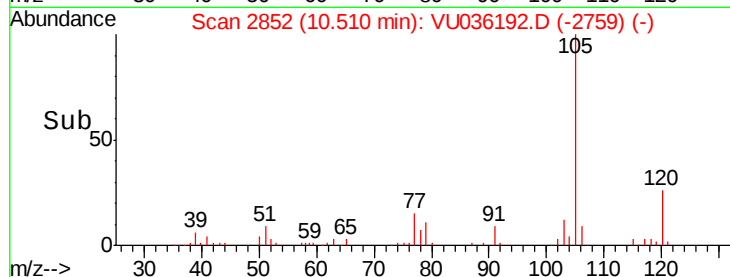
77 15.8 12.5 18.7



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: 0.999 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

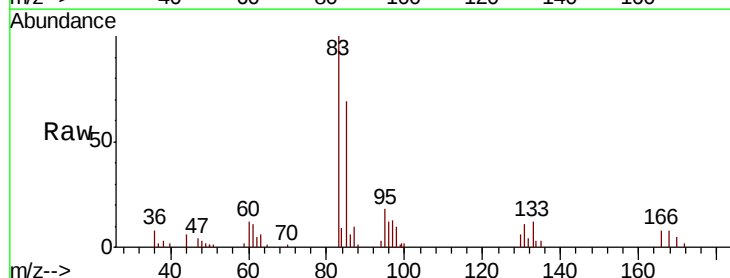
Tgt Ion: 83 Resp: 19975

Ion Ratio Lower Upper

83 100

85 68.6 45.6 84.8

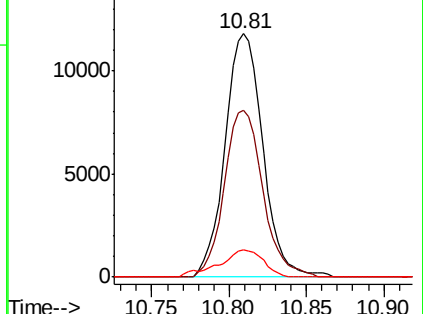
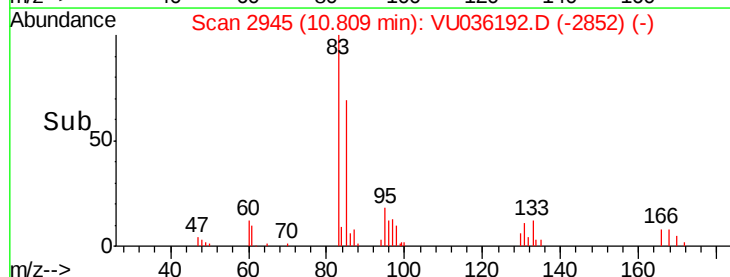
131 11.4 8.5 12.7

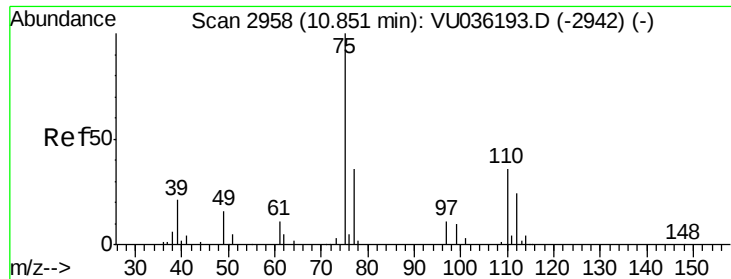


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.968 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

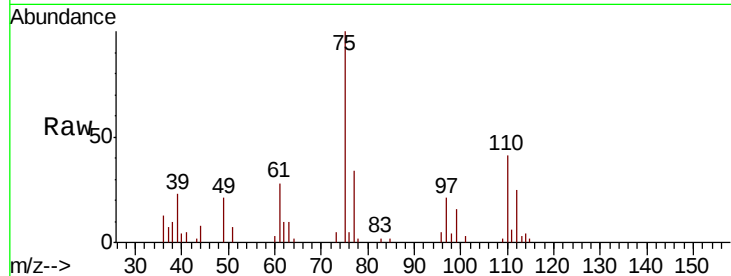
VSTD00102

Tot Ion: 75 Resp: 13715

Ion Ratio Lower Upper

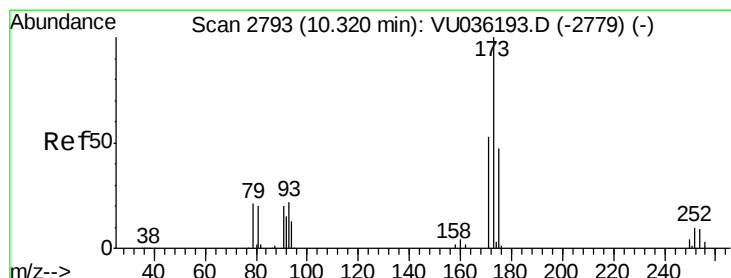
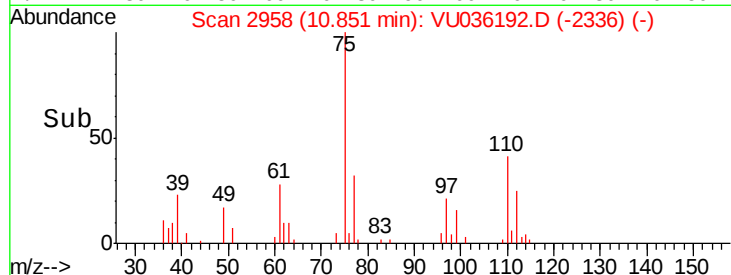
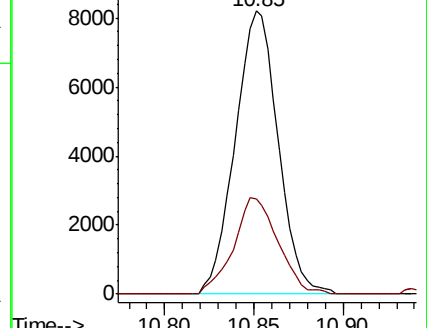
75 100

77 35.2 27.2 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU036192.D (-2336) (-)

Ion 77.00 (76.70 to 77.70): VU036192.D (-2336) (-)



#61

Bromoform

Concen: 0.974 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

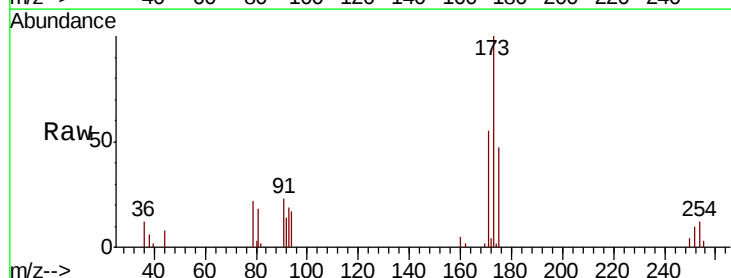
Tgt Ion: 173 Resp: 11651

Ion Ratio Lower Upper

173 100

175 47.4 39.2 58.8

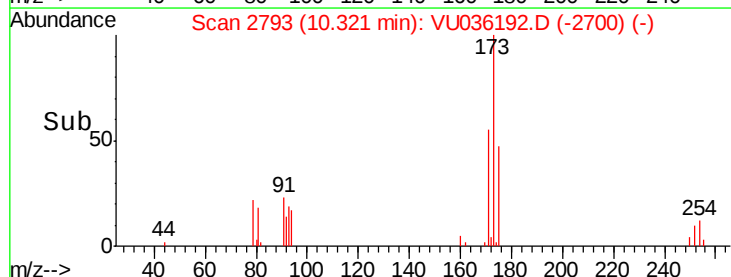
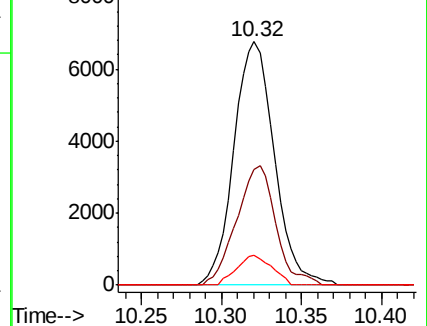
254 10.6 7.8 11.6

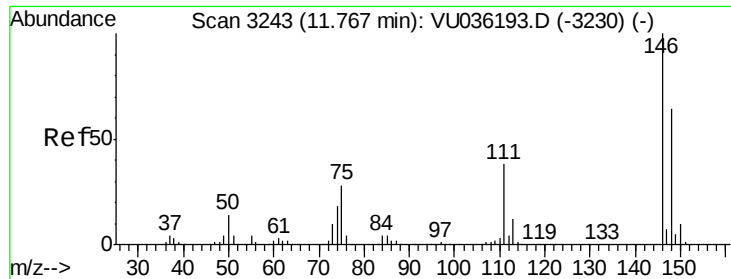


Abundance Ion 172.90 (172.60 to 173.60): VU036192.D (-2700) (-)

Ion 174.90 (174.60 to 175.60): VU036192.D (-2700) (-)

Ion 253.75 (253.45 to 254.45): VU036192.D (-2700) (-)

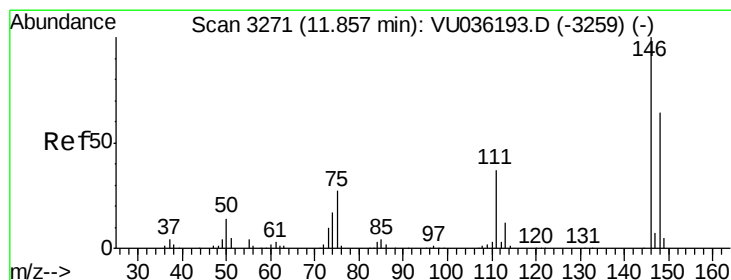
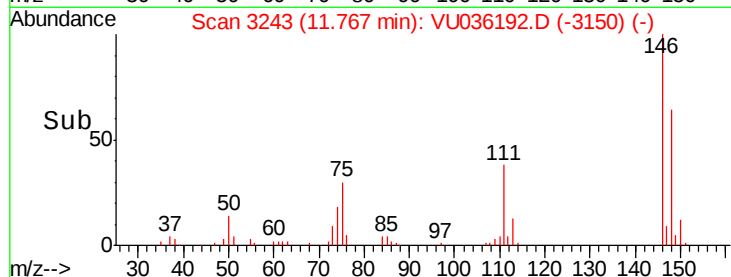
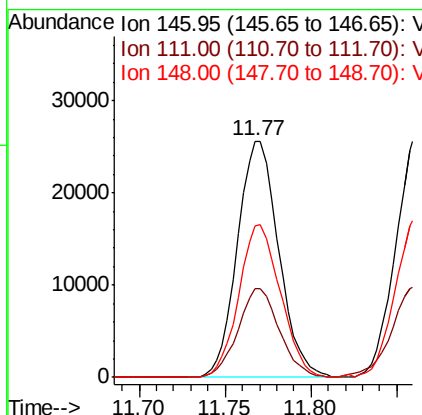
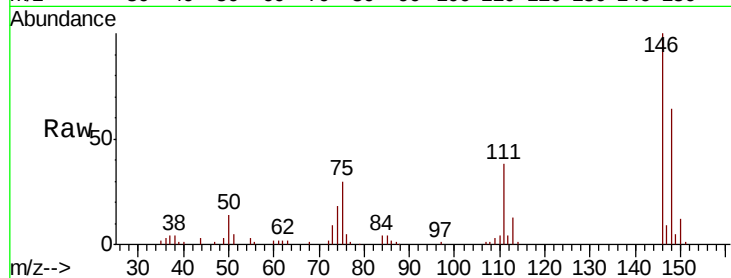




#62
 1,3-Dichlorobenzene
 Concen: 1.025 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

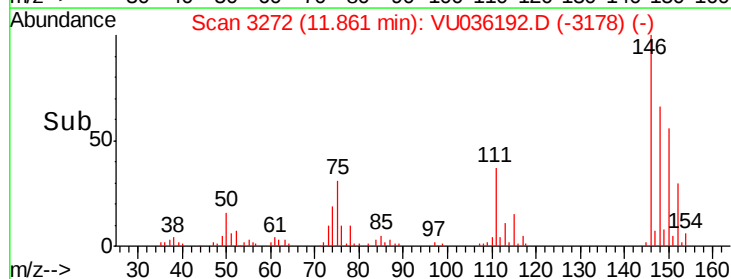
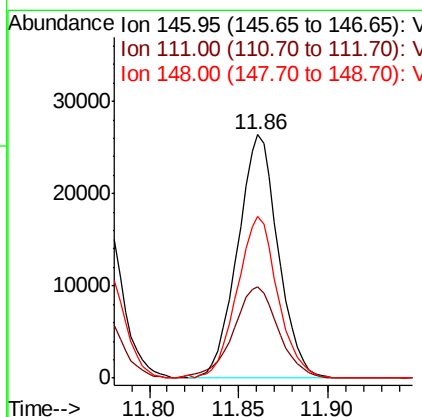
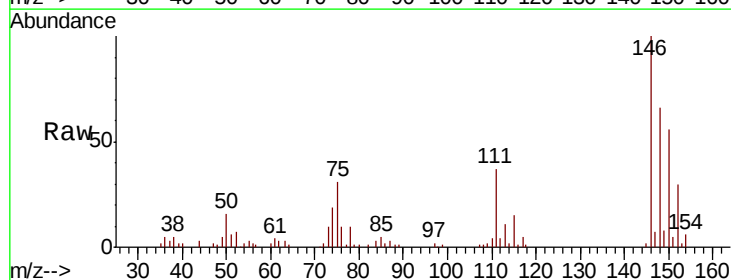
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00102

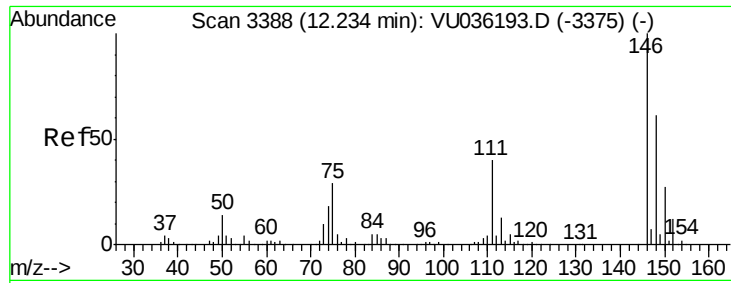
Tot Ion:146 Resp: 42737
 Ion Ratio Lower Upper
 146 100
 111 37.6 26.3 48.9
 148 64.2 45.1 83.9



#63
 1,4-Dichlorobenzene
 Concen: 1.018 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

Tgt Ion:146 Resp: 41819
 Ion Ratio Lower Upper
 146 100
 111 37.2 25.8 48.0
 148 66.2 44.7 82.9





#65

1,2-Dichlorobenzene

Concen: 1.035 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00102

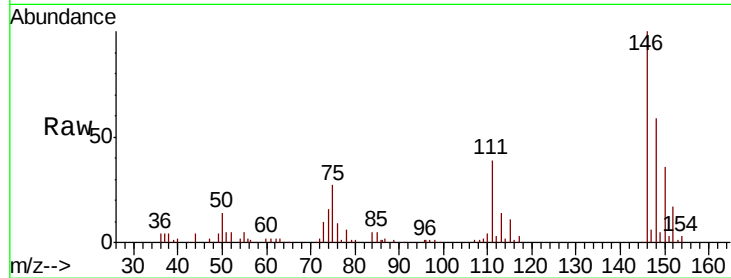
Tot Ion:146 Resp: 41397

Ion Ratio Lower Upper

146 100

111 38.7 32.5 48.7

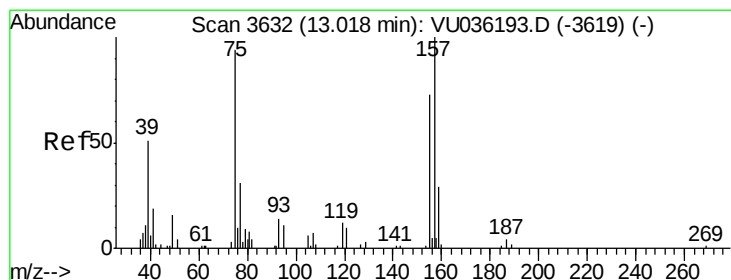
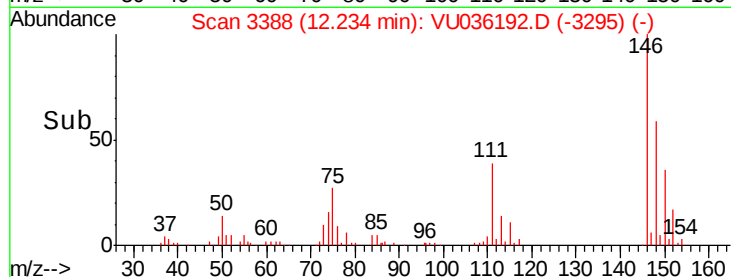
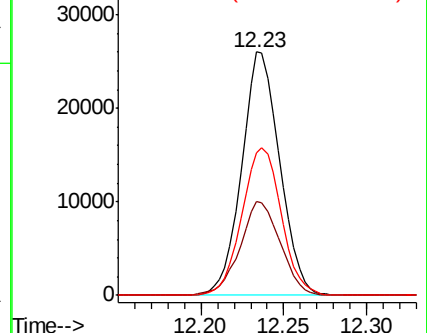
148 58.5 49.2 73.8



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: 0.920 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

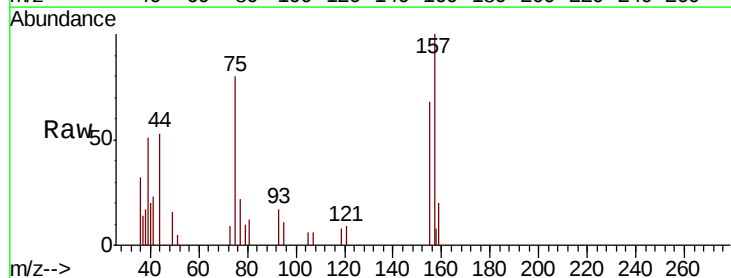
Tgt Ion: 75 Resp: 2384

Ion Ratio Lower Upper

75 100

155 85.1 61.9 92.9

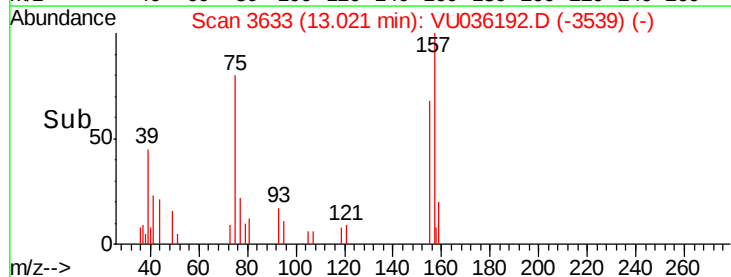
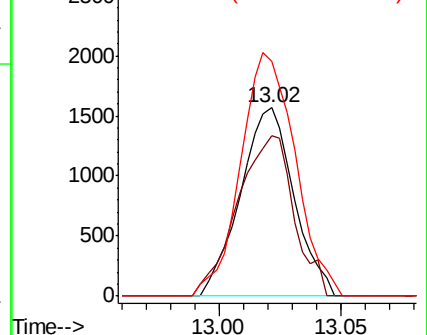
157 124.9 84.9 127.3

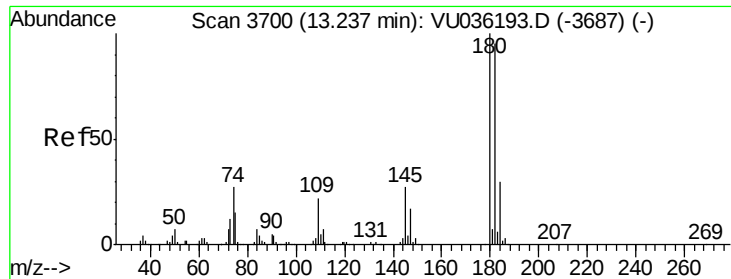


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

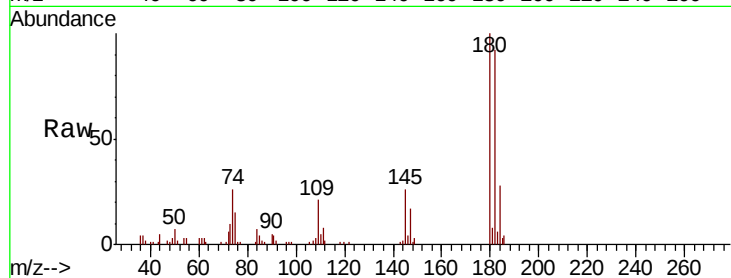




#67
 1,3,5-Trichlorobenzene
 Concen: 1.122 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00102

Tot Ion	180	Resp	31082
Ion Ratio	Lower	Upper	
180	100		
182	95.1	76.9	115.3
184	29.2	24.2	36.4
145	27.0	22.0	33.0



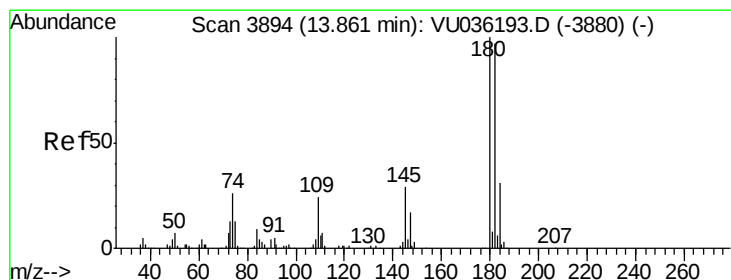
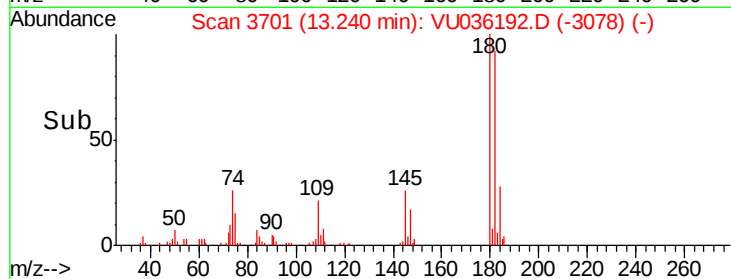
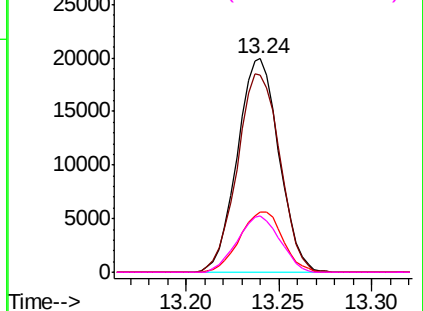
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

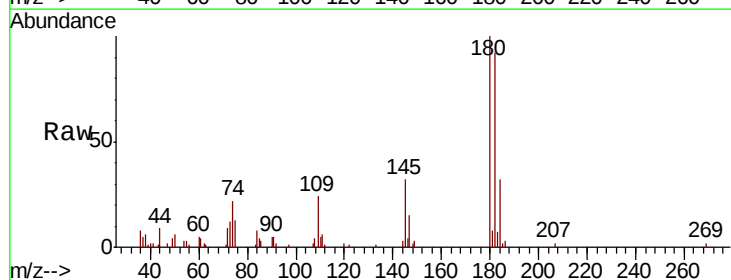
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 1.122 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036192.D
 Acq: 13 Dec 2019 12:58

Tgt Ion	180	Resp	17301
Ion Ratio	Lower	Upper	
180	100		
182	95.3	75.3	112.9
145	30.3	22.7	34.1

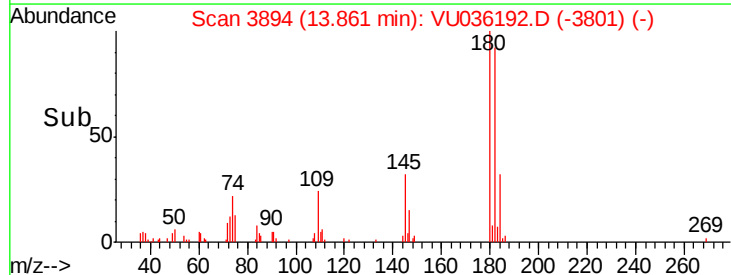
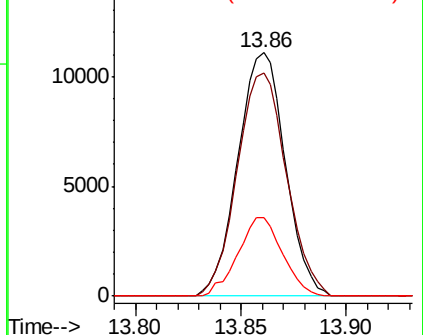


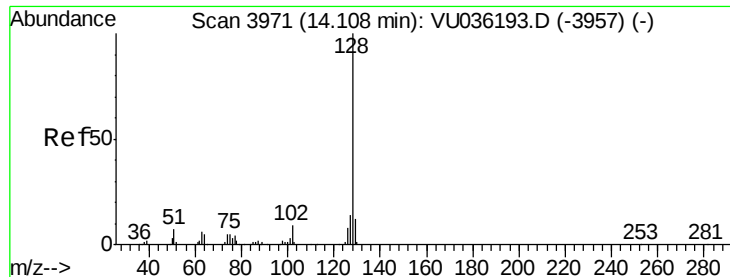
Abundance

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: 1.001 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00102

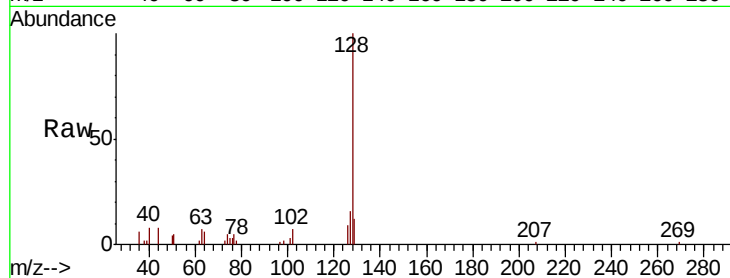
Tot Ion:128 Resp: 16896

Ion Ratio Lower Upper

128 100

129 10.2 8.4 12.6

127 15.4 11.5 17.3

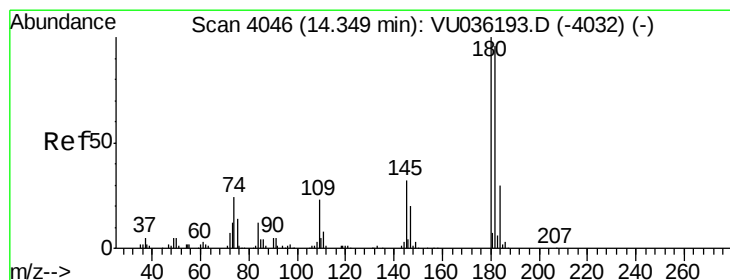
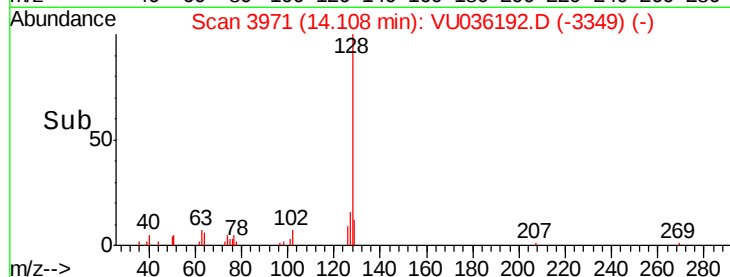
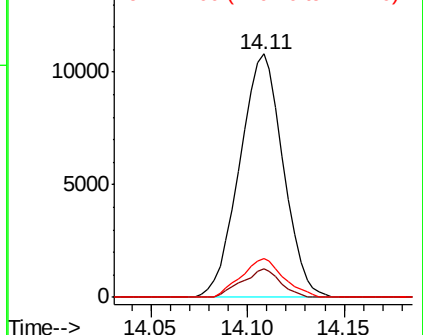


Abundance

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: 1.161 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036192.D

Acq: 13 Dec 2019 12:58

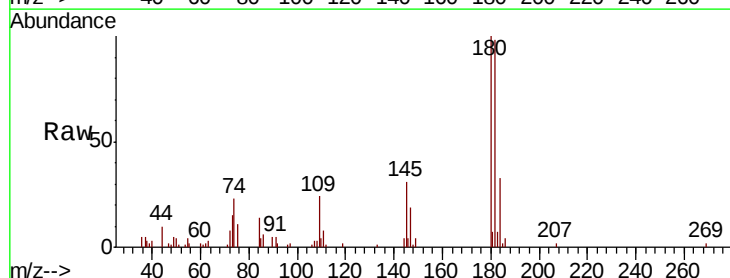
Tgt Ion:180 Resp: 16776

Ion Ratio Lower Upper

180 100

182 100.4 77.0 115.6

145 33.0 24.9 37.3



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

