

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101519\
 Data File : VU035179.D
 Acq On : 15 Oct 2019 09:22
 Operator : JC/SP
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 15 14:53:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 15 07:54:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	160654	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	164457	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	83926	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	40728	4.29	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.80%
7) Chloroethane-d5	1.67	69	39957	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.20%
11) 1,1-Dichloroethene-d2	2.26	63	87413	4.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.40%
20) 2-Butanone-d5	4.18	46	151904	54.32	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.64%
24) Chloroform-d	4.63	84	86125	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
26) 1,2-Dichloroethane-d4	5.29	65	47388	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.20%
32) Benzene-d6	5.32	84	158331	4.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.20%
36) 1,2-Dichloropropane-d6	6.31	67	57155	4.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.60%
41) Toluene-d8	7.54	98	149716	4.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.20%
43) trans-1,3-Dichloropropene-	7.83	79	19659	4.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.80%
46) 2-Hexanone-d5	8.30	63	108540	49.19	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.38%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	53414	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.40%
64) 1,2-Dichlorobenzene-d4	11.84	152	57100	4.03	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	80.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	69437	4.729	ug/L 98
3) Chloromethane	1.32	50	76471	4.748	ug/L 100
5) Vinyl chloride	1.40	62	78176	4.942	ug/L 100
6) Bromomethane	1.62	94	48908	5.561	ug/L 98
8) Chloroethane	1.69	64	47468	5.003	ug/L 96
9) Trichlorofluoromethane	1.88	101	96865	5.063	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	53987	4.914	ug/L 97
12) 1,1-Dichloroethene	2.27	96	50198	4.865	ug/L 82
13) Acetone	2.32	43	123249	53.809	ug/L 94
14) Carbon disulfide	2.46	76	154194	4.490	ug/L 99
15) Methyl Acetate	2.61	43	30433	4.991	ug/L 97
16) Methylene chloride	2.68	84	58559	4.584	ug/L 87
17) Methyl tert-butyl Ether	2.99	73	141619	5.030	ug/L 97
18) trans-1,2-Dichloroethene	2.96	96	52555	4.756	ug/L 98
19) 1,1-Dichloroethane	3.42	63	113405	5.164	ug/L 100
21) 2-Butanone	4.26	43	180045	55.197	ug/L 93
22) cis-1,2-Dichloroethene	4.20	96	58531	4.749	ug/L 88

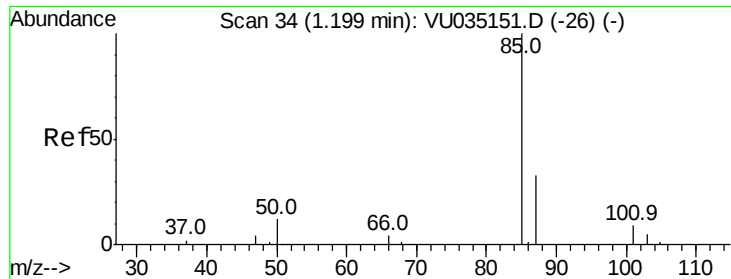
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101519\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	26732	5.175	ug/L	89
25) Chloroform	4.65	83	114812	4.653	ug/L	99
27) 1,2-Dichloroethane	5.38	62	74705	5.184	ug/L	98
29) 1,1,1-Trichloroethane	4.89	97	90620	4.906	ug/L	97
30) Cyclohexane	4.96	56	87147	4.291	ug/L	94
31) Carbon tetrachloride	5.11	117	78936	4.929	ug/L	99
33) Benzene	5.36	78	234570	4.735	ug/L	100
34) Trichloroethene	6.16	95	59796	4.681	ug/L	97
35) Methylcyclohexane	6.39	83	89680	4.334	ug/L	96
37) 1,2-Dichloropropane	6.41	63	67317	5.037	ug/L	100
38) Bromodichloromethane	6.74	83	78918	5.038	ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	84966	4.694	ug/L	98
40) 4-Methyl-2-pentanone	7.45	43	433663	51.563	ug/L	96
42) Toluene	7.62	91	255089	4.933	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	69290	4.942	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	46048	5.190	ug/L	97
47) Tetrachloroethene	8.21	164	47742	4.617	ug/L	98
48) 2-Hexanone	8.35	43	310493	53.845	ug/L	97
49) Dibromochloromethane	8.46	129	53506	5.217	ug/L	97
50) 1,2-Dibromoethane	8.57	107	42841	5.052	ug/L	96
51) Chlorobenzene	9.10	112	161467	4.819	ug/L	98
52) Ethylbenzene	9.23	91	267021	4.675	ug/L	100
53) m,p-Xylene	9.36	106	100784	4.777	ug/L	95
54) o-Xylene	9.76	106	97631	4.732	ug/L	94
55) Styrene	9.77	104	166868	4.994	ug/L	98
56) Isopropylbenzene	10.15	105	263884	4.801	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	62319	5.165	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	45023	5.205	ug/L	100
61) Bromoform	9.94	173	28967	5.032	ug/L	94
62) 1,3-Dichlorobenzene	11.40	146	121956	4.717	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	125028	4.792	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	118964	4.769	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	8062	5.085	ug/L	99
67) 1,3,5-Trichlorobenzene	12.86	180	77776	4.443	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	52839	4.041	ug/L	99
69) Naphthalene	13.72	128	77454	3.810	ug/L	98
70) 1,2,3-Trichlorobenzene	13.96	180	56546	4.448	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.729 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

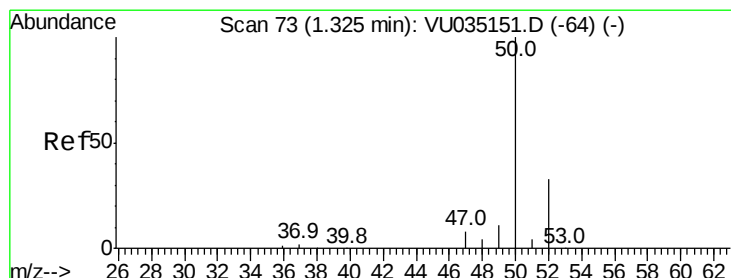
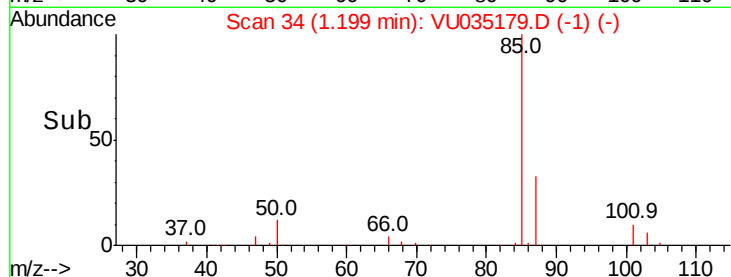
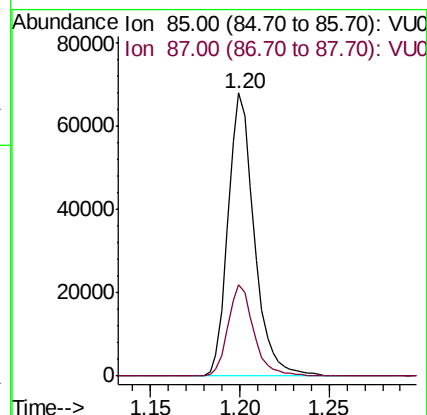
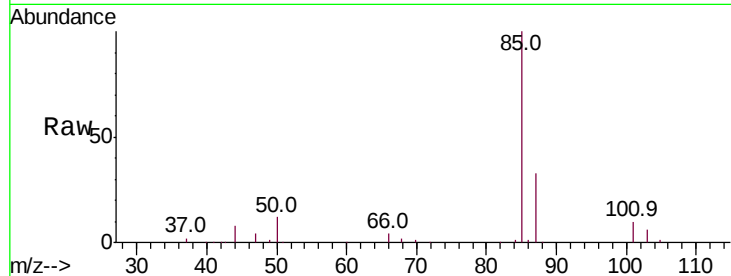
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 69437

Ion Ratio Lower Upper

85 100

87 31.8 26.3 39.5



#3

Chloromethane

Concen: 4.748 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU035179.D

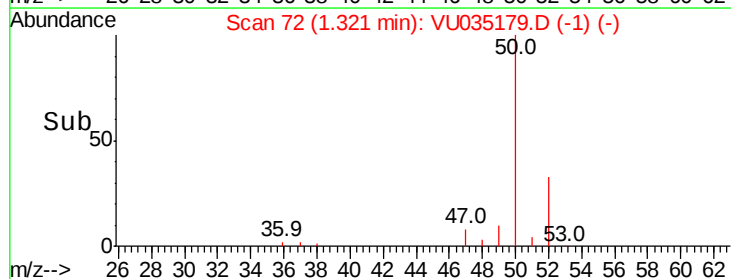
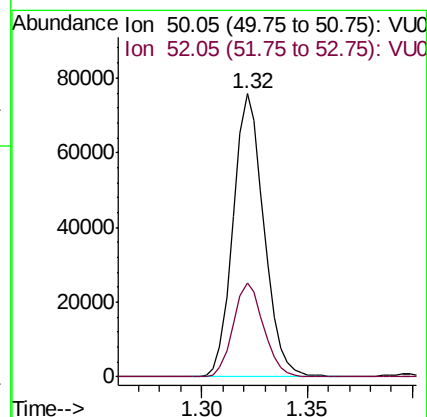
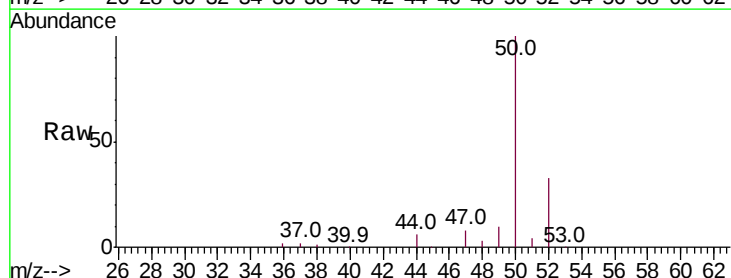
Acq: 15 Oct 2019 09:22

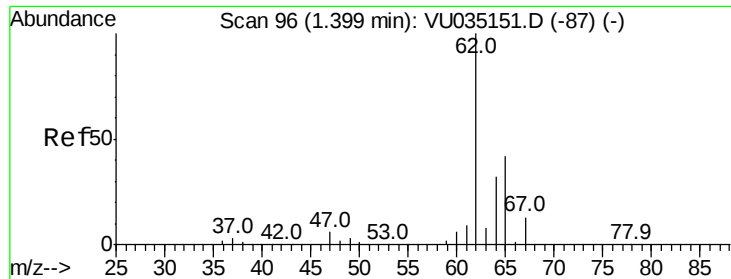
Tgt Ion: 50 Resp: 76471

Ion Ratio Lower Upper

50 100

52 33.0 23.3 43.3





#5

Vinyl chloride

Concen: 4.942 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

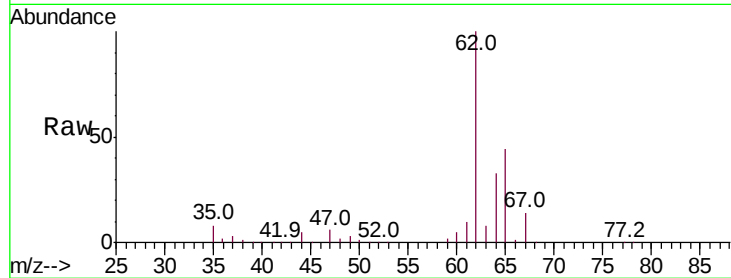
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 78176

Ion Ratio Lower Upper

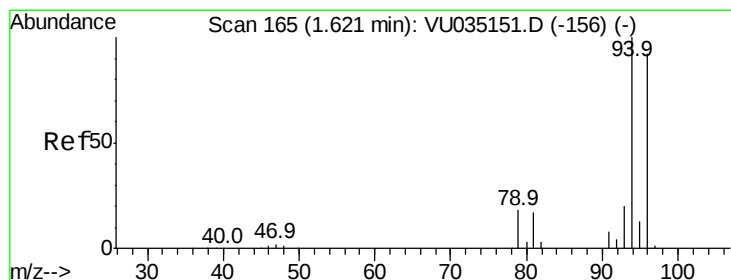
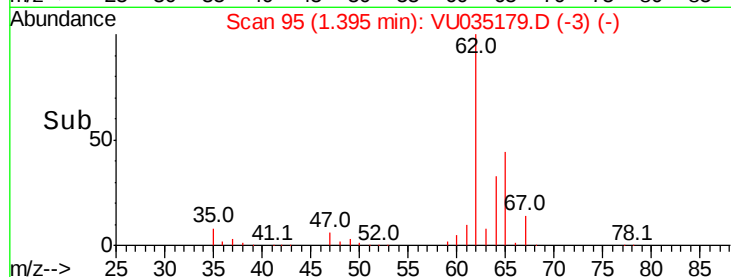
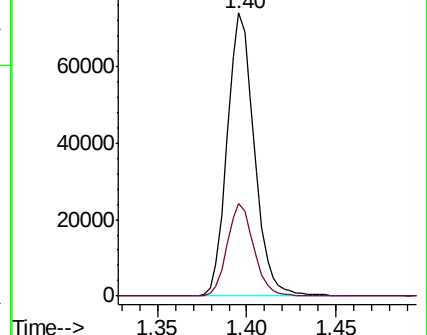
62 100

64 32.6 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU035151.D (-87) (-)

Ion 64.10 (63.80 to 64.80): VU035151.D (-87) (-)



#6

Bromomethane

Concen: 5.561 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035179.D

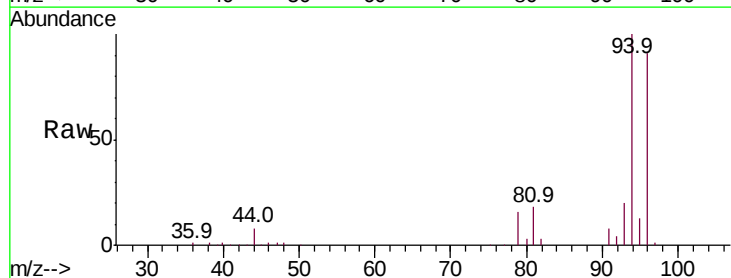
Acq: 15 Oct 2019 09:22

Tgt Ion: 94 Resp: 48908

Ion Ratio Lower Upper

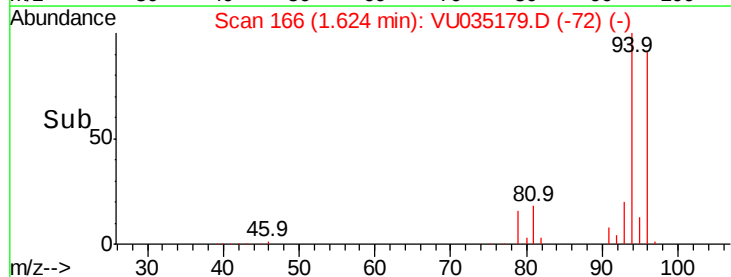
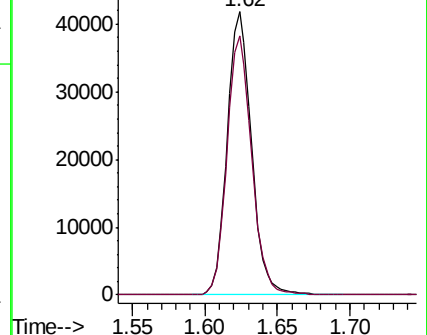
94 100

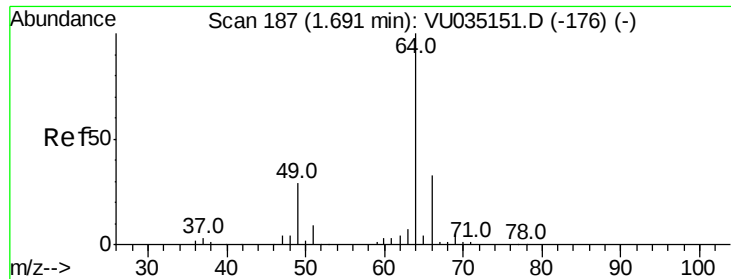
96 91.4 62.4 116.0



Abundance Ion 94.00 (93.70 to 94.70): VU035151.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035151.D (-156) (-)





#8

Chloroethane

Concen: 5.003 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

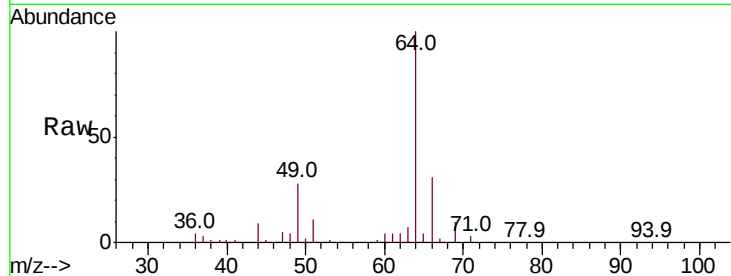
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 47468

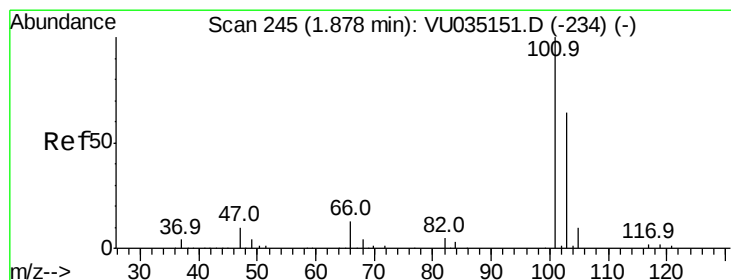
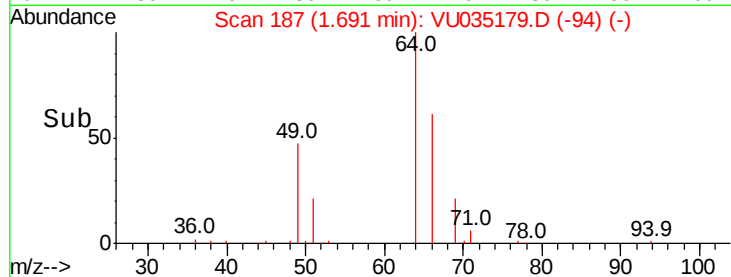
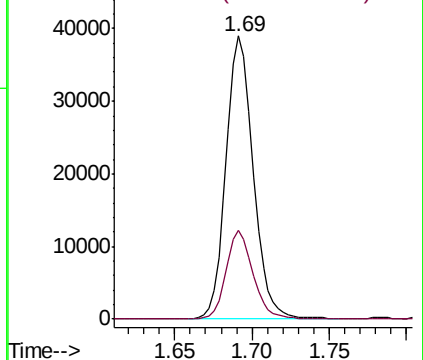
Ion Ratio Lower Upper

64 100

66 31.2 23.2 43.2



Abundance Ion 64.10 (63.80 to 64.80): VU035179.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 5.063 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU035179.D

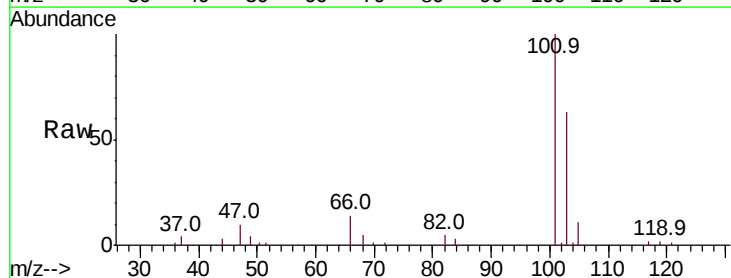
Acq: 15 Oct 2019 09:22

Tgt Ion: 101 Resp: 96865

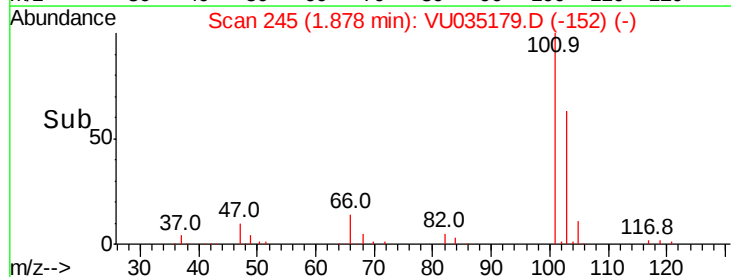
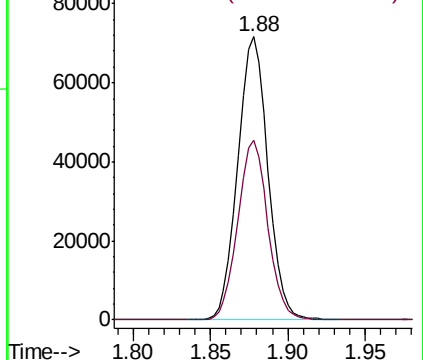
Ion Ratio Lower Upper

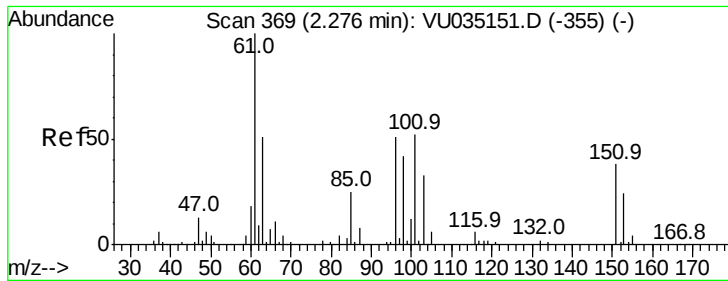
101 100

103 63.2 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU035179.D (-234) (-)





#10

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

Concen: 4.914 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

Instrument :

MSVOA_U

ClientSampleId :

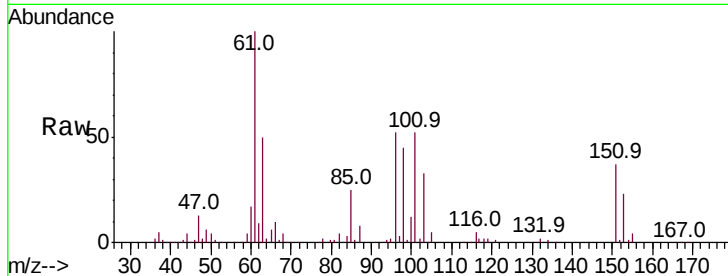
Tot Ion:101 Resp: 53987

Ion Ratio Lower Upper

101 100

85 47.9 37.4 56.0

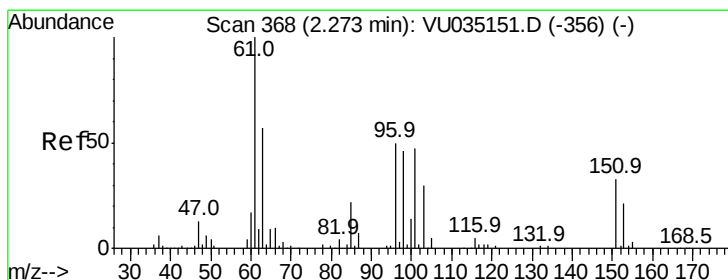
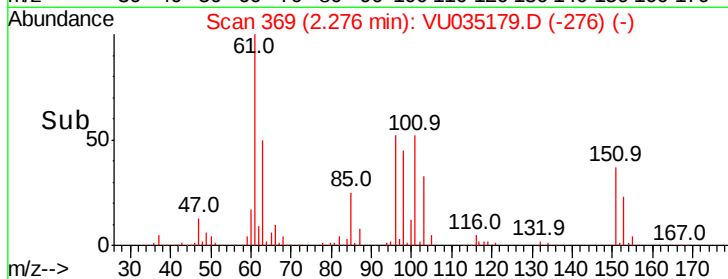
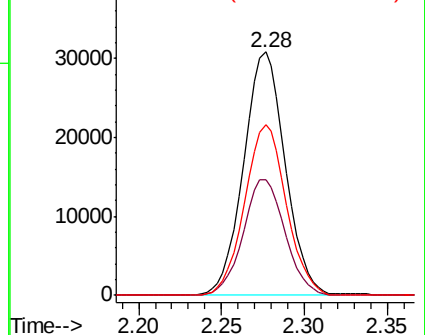
151 70.2 58.6 87.8



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: 4.865 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

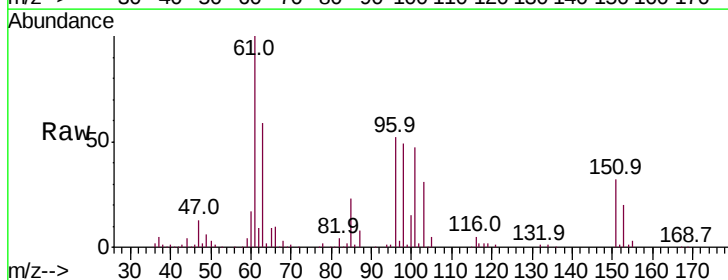
Tgt Ion: 96 Resp: 50198

Ion Ratio Lower Upper

96 100

61 192.8 129.3 240.1

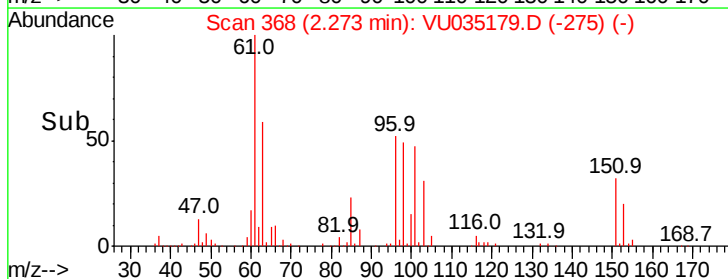
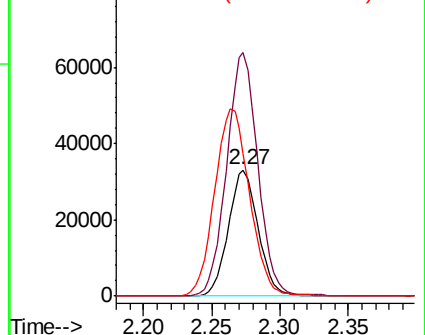
63 113.3 108.9 202.3

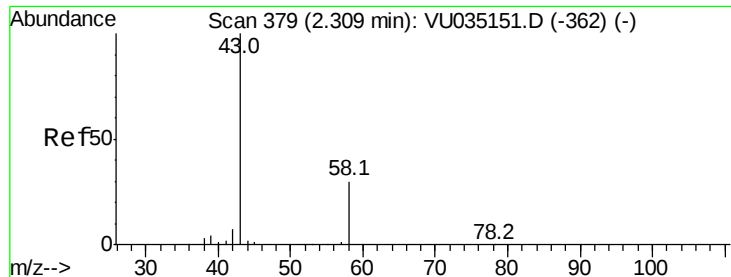


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 53.809 ug/L

RT: 2.32 min Scan# 384

Delta R.T. 0.02 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

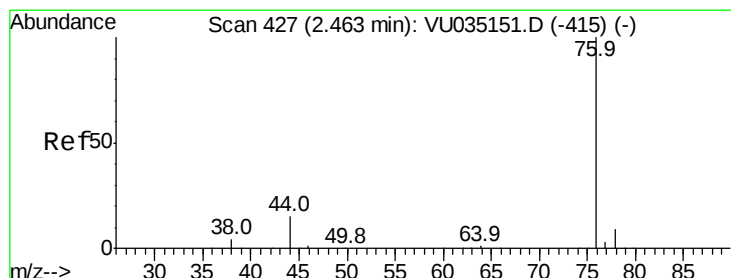
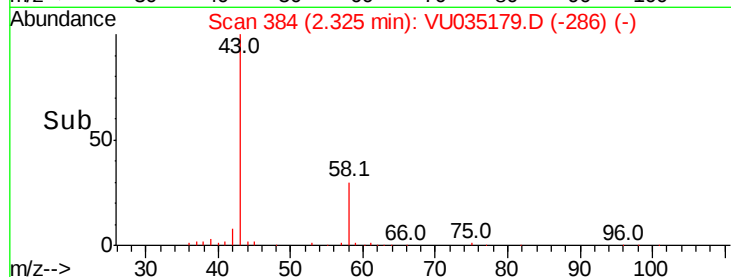
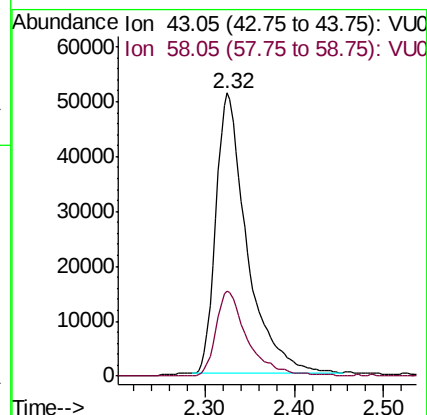
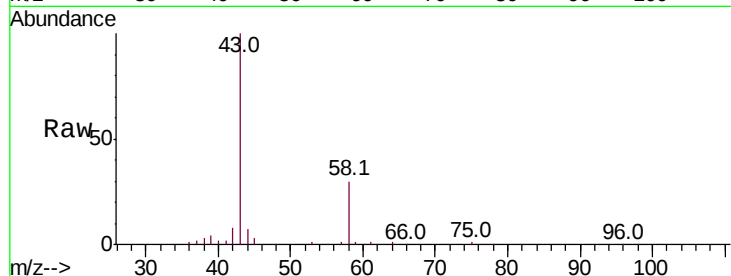
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 123249

Ion Ratio Lower Upper

43 100

58 29.9 0.0 66.6



#14

Carbon disulfide

Concen: 4.490 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU035179.D

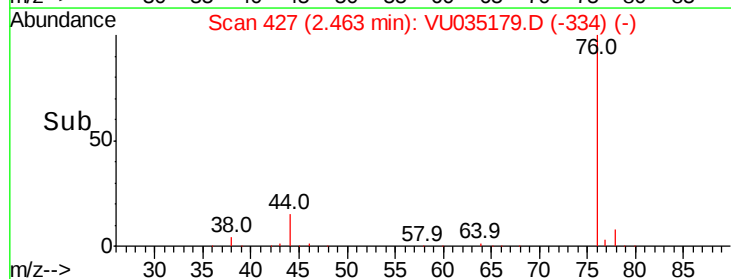
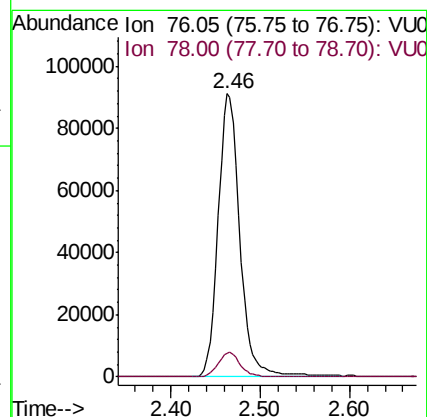
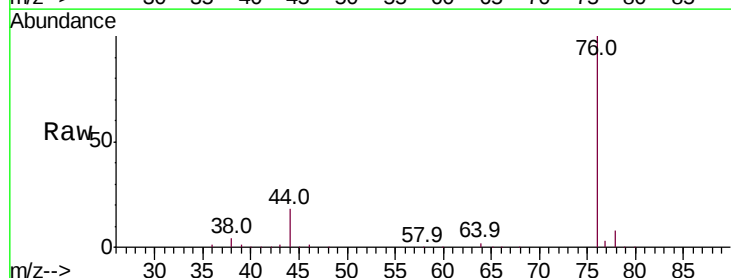
Acq: 15 Oct 2019 09:22

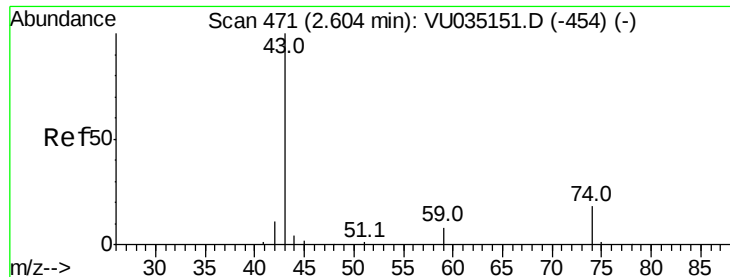
Tgt Ion: 76 Resp: 154194

Ion Ratio Lower Upper

76 100

78 8.4 7.1 10.7





#15

Methvl Acetate

Concen: 4.991 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

Instrument :

MSVOA_U

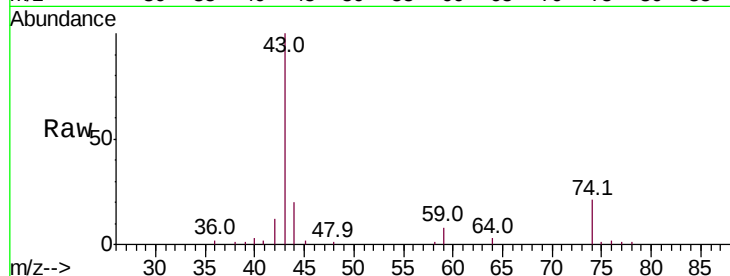
ClientSampleId :

Tot Ion: 43 Resp: 30433

Ion Ratio Lower Upper

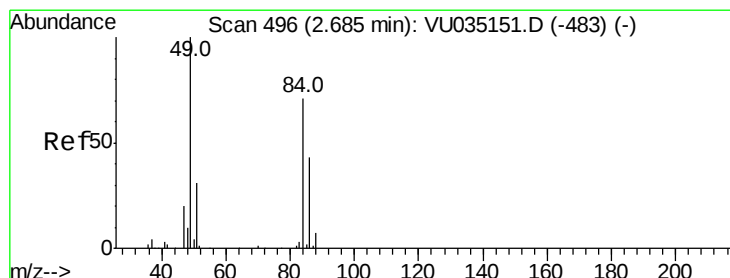
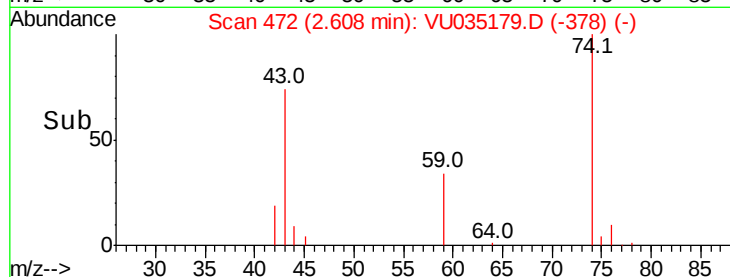
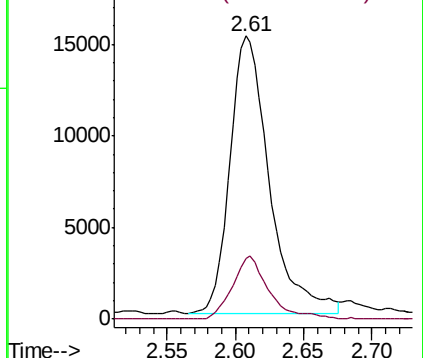
43 100

74 21.1 17.8 26.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 4.584 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

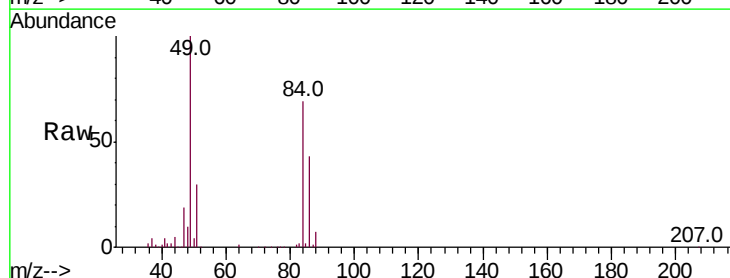
Tgt Ion: 84 Resp: 58559

Ion Ratio Lower Upper

84 100

86 62.6 42.5 78.9

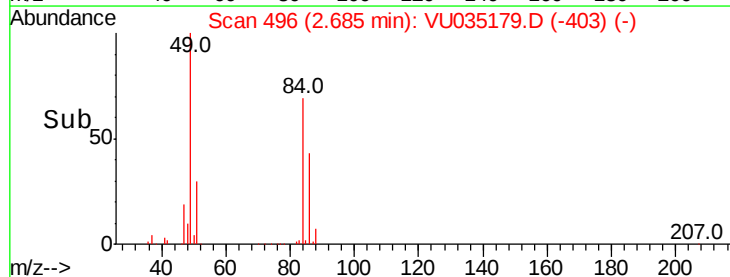
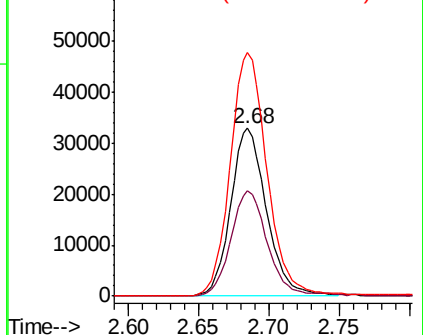
49 145.3 86.9 161.3

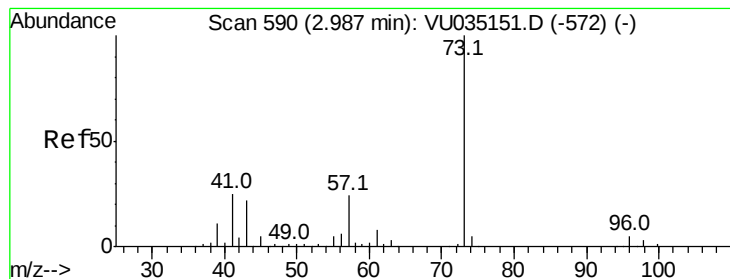


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



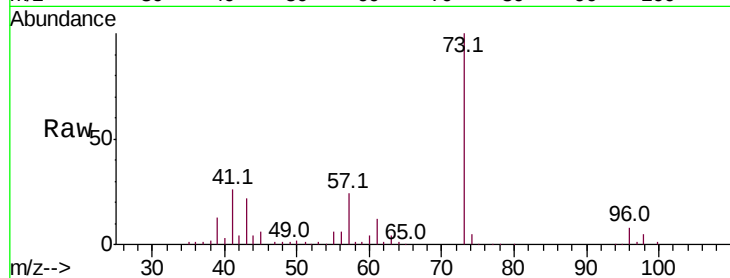


#17

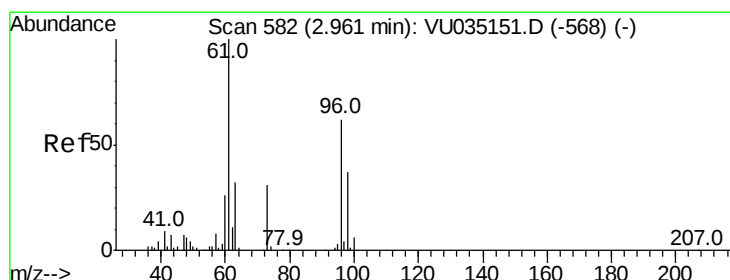
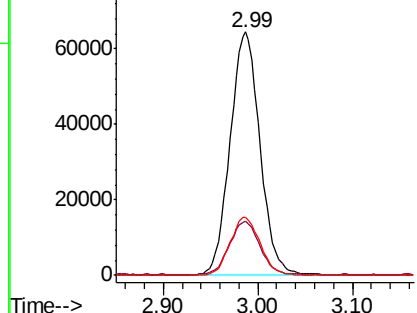
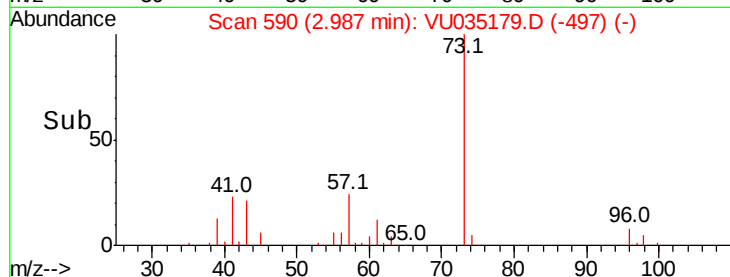
Methvl tert-butvl Ether
 Concen: 5.030 ug/L
 RT: 2.99 min Scan# 590
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 141619
 Ion Ratio Lower Upper
 73 100
 43 22.4 16.3 24.5
 57 24.1 18.6 28.0



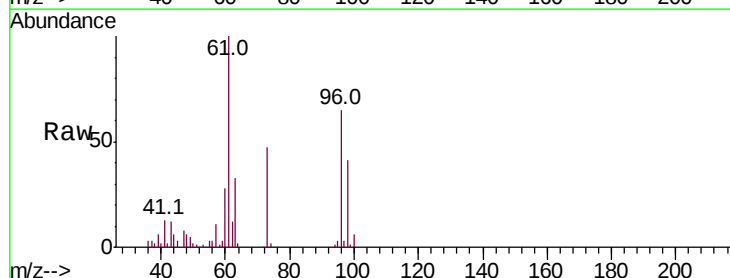
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



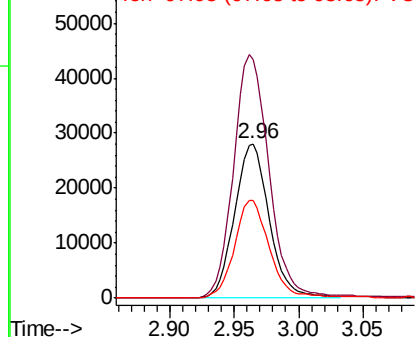
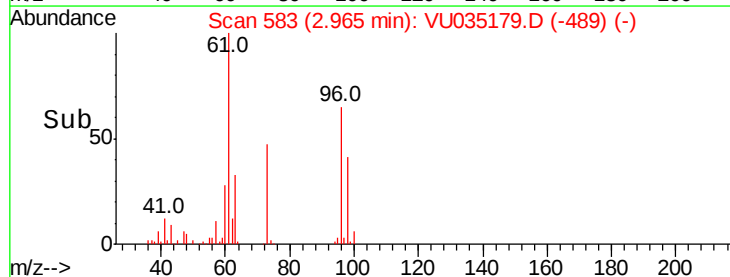
#18

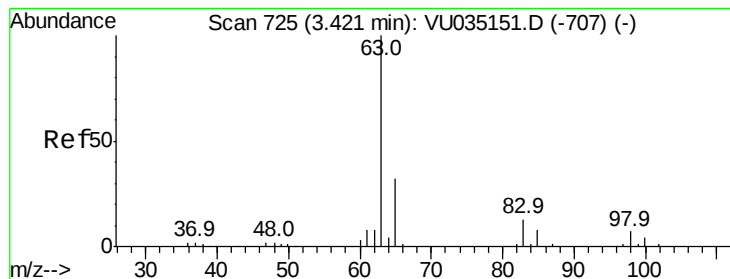
trans-1,2-Dichloroethene
 Concen: 4.756 ug/L
 RT: 2.96 min Scan# 583
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

Tgt Ion: 96 Resp: 52555
 Ion Ratio Lower Upper
 96 100
 61 154.6 107.1 198.9
 98 63.0 45.4 84.4



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: 5.164 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

Instrument :
MSVOA_U
ClientSampleId :

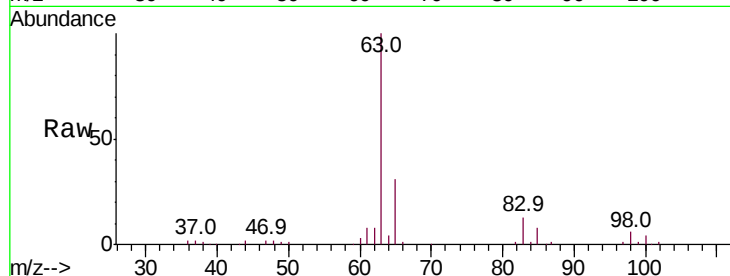
Tot Ion: 63 Resp: 113405

Ion	Ratio	Lower	Upper
63	100		
65	31.2	21.7	40.3
83	12.9	9.0	16.8

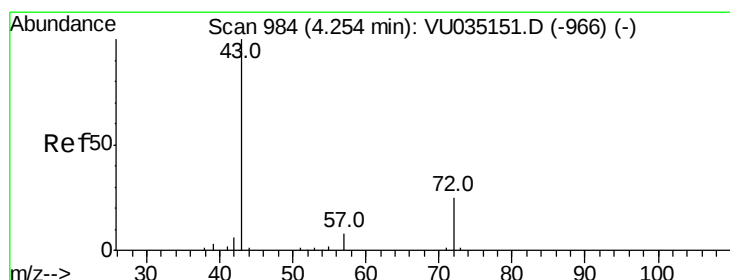
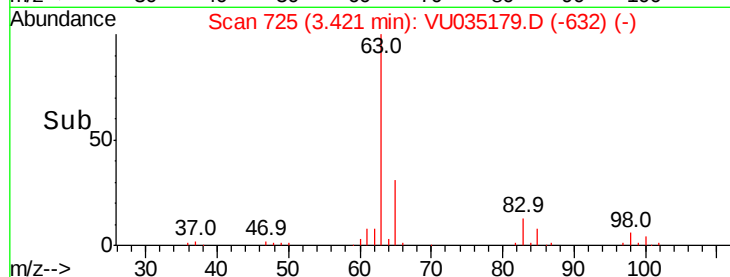
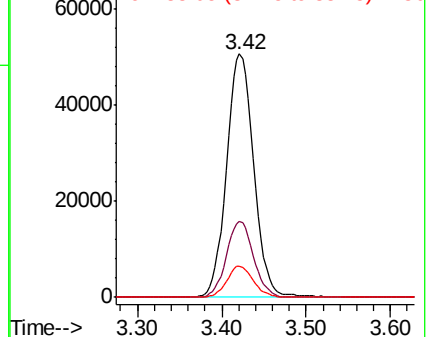
63 100

65 31.2 21.7 40.3

83 12.9 9.0 16.8



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: 55.197 ug/L

RT: 4.26 min Scan# 987

Delta R.T. 0.01 min

Lab File: VU035179.D

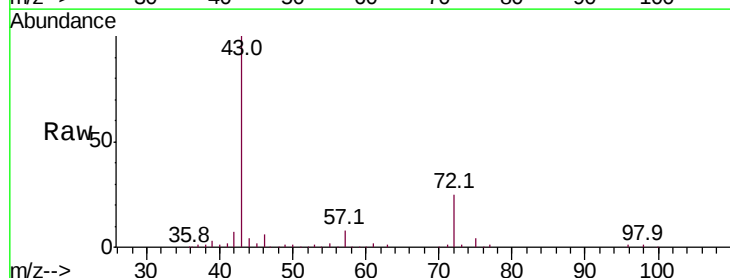
Acq: 15 Oct 2019 09:22

Tgt Ion: 43 Resp: 180045

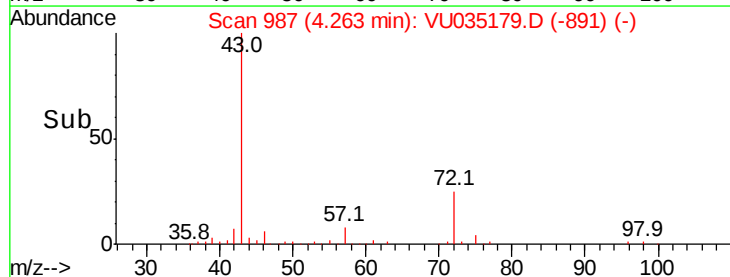
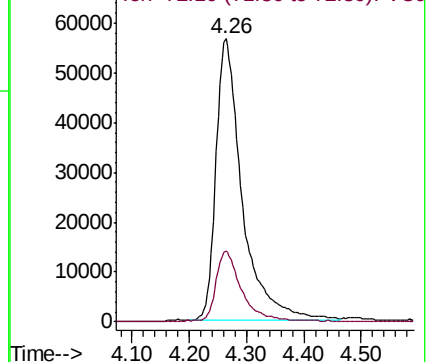
Ion	Ratio	Lower	Upper
43	100		
72	23.5	13.5	40.4

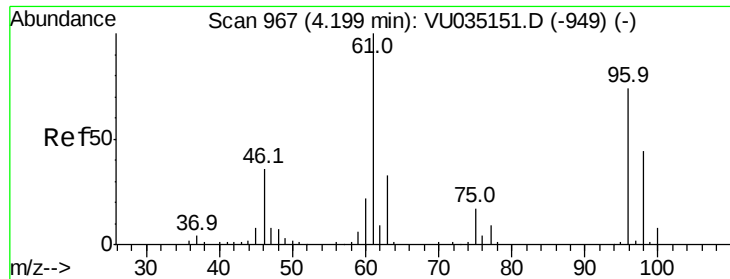
43 100

72 23.5 13.5 40.4



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



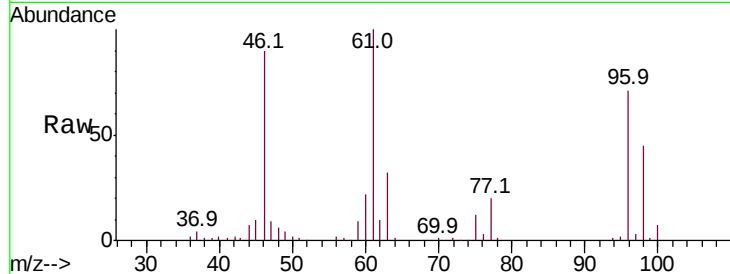


#22

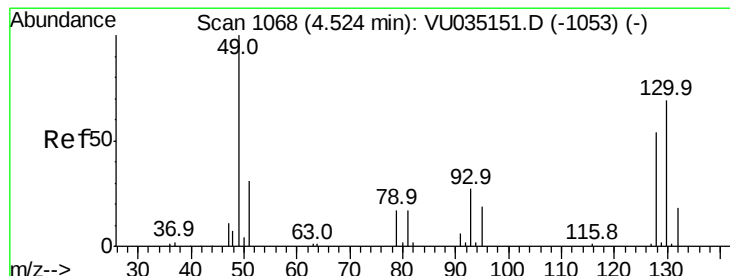
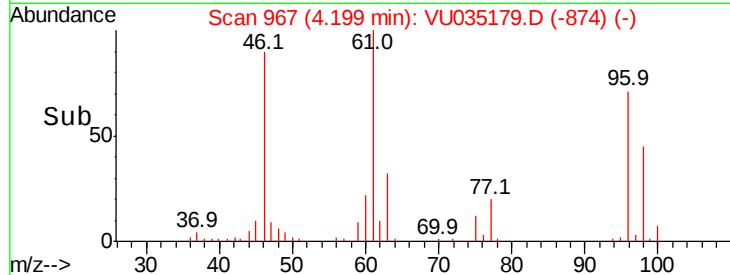
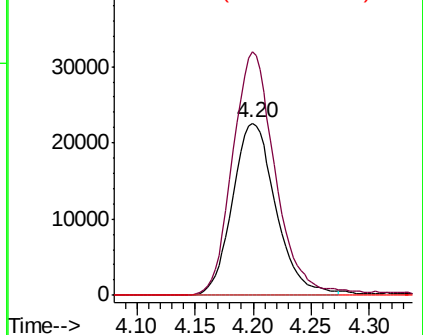
cis-1,2-Dichloroethene
Concen: 4.749 ug/L
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 58531
Ion Ratio Lower Upper
96 100
61 141.5 89.2 165.6
68 0.0 0.0 0.0



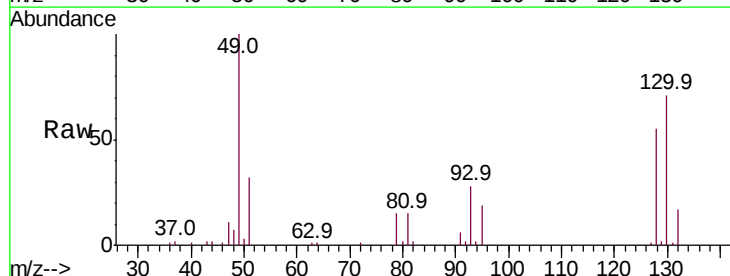
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



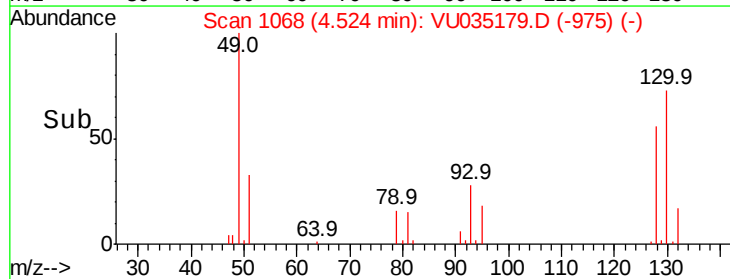
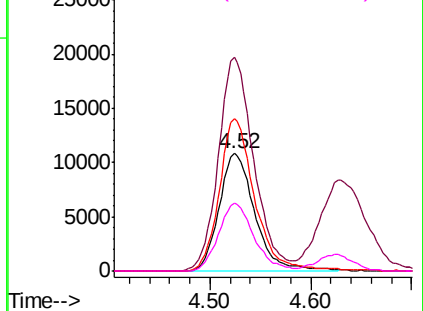
#23

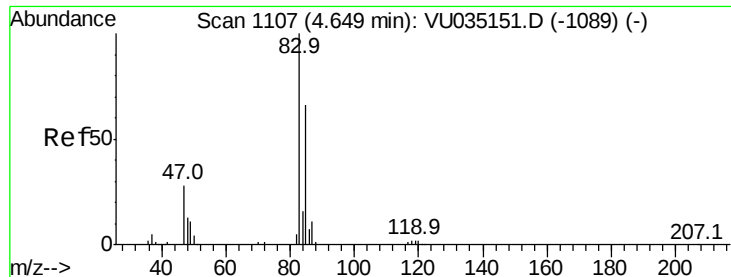
Bromochloromethane
Concen: 5.175 ug/L
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Tgt Ion: 128 Resp: 26732
Ion Ratio Lower Upper
128 100
49 182.1 110.5 205.3
130 129.8 88.6 164.6
51 58.0 43.2 64.8



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

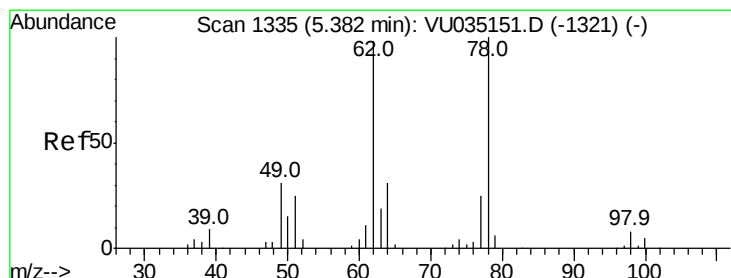
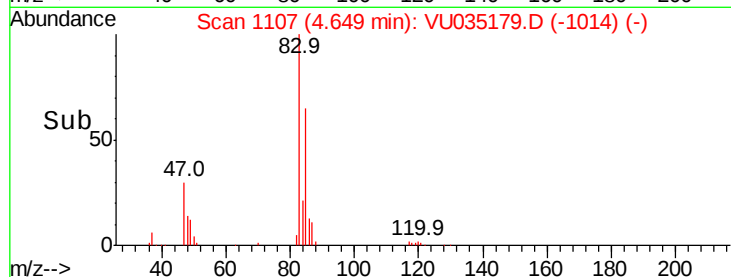
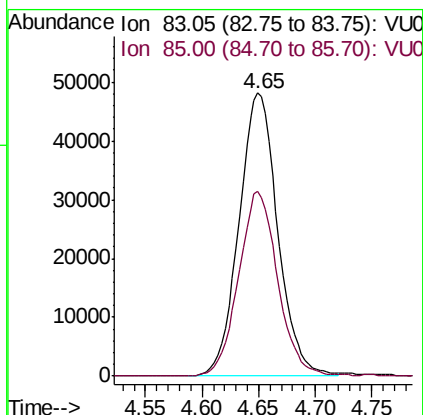
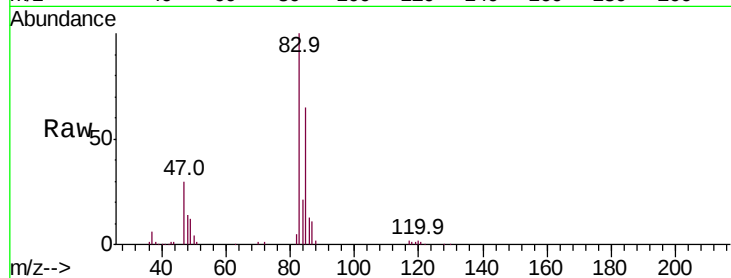




#25
Chloroform
Concen: 4.653 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

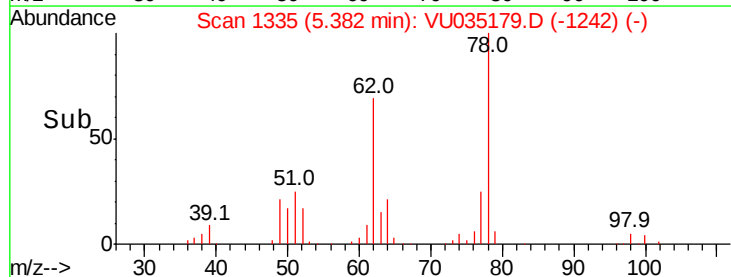
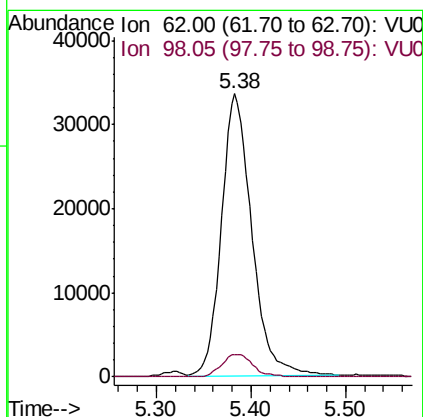
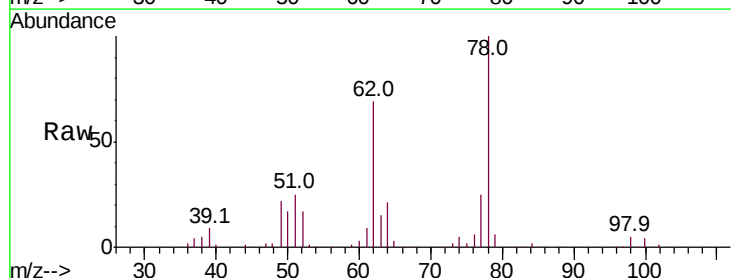
Instrument :
MSVOA_U
ClientSampleId :

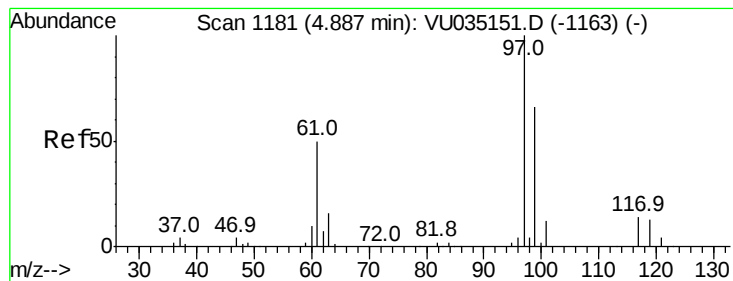
Tot Ion: 83 Resp: 114812
Ion Ratio Lower Upper
83 100
85 65.5 45.4 84.4



#27
1,2-Dichloroethane
Concen: 5.184 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Tgt Ion: 62 Resp: 74705
Ion Ratio Lower Upper
62 100
98 7.7 6.6 10.0





#29

1,1,1-Trichloroethane

Concen: 4.906 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

Instrument :
MSVOA_U
ClientSampleId :

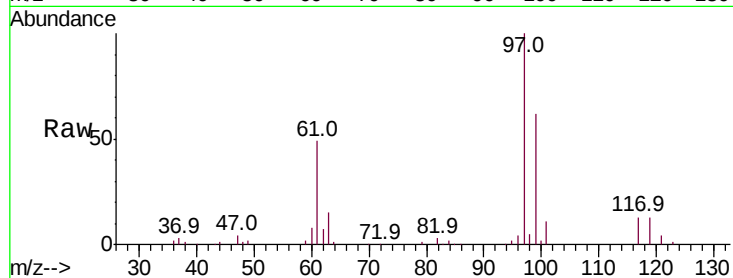
Tot Ion: 97 Resp: 90620

Ion Ratio Lower Upper

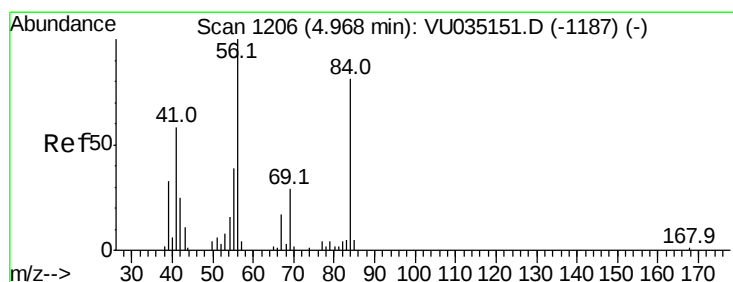
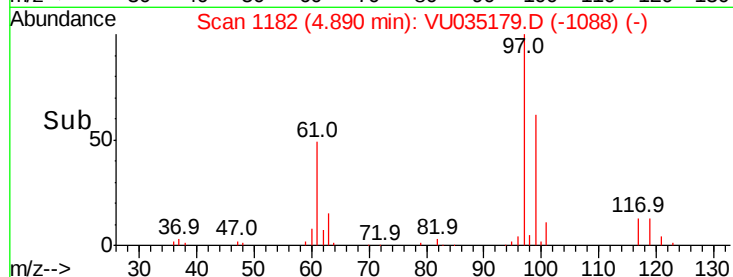
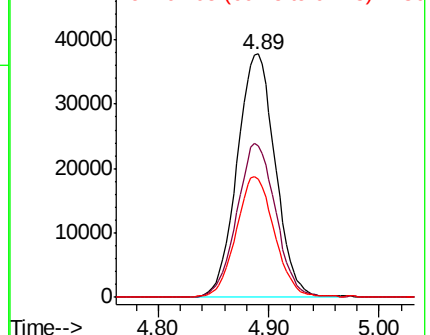
97 100

99 64.4 51.6 77.4

61 49.8 36.2 54.4



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: 4.291 ug/L

RT: 4.96 min Scan# 1205

Delta R.T. -0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

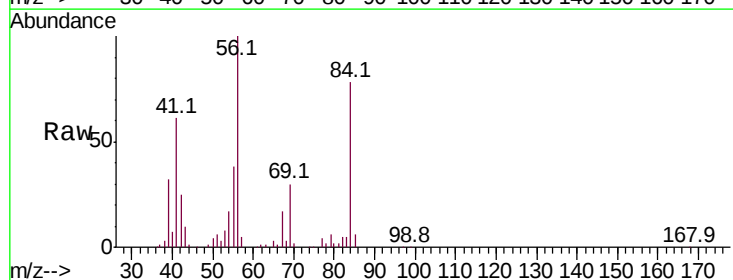
Tgt Ion: 56 Resp: 87147

Ion Ratio Lower Upper

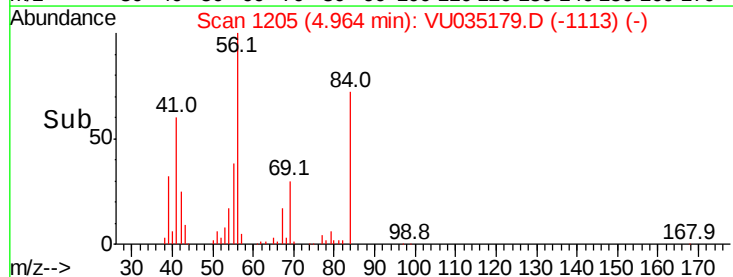
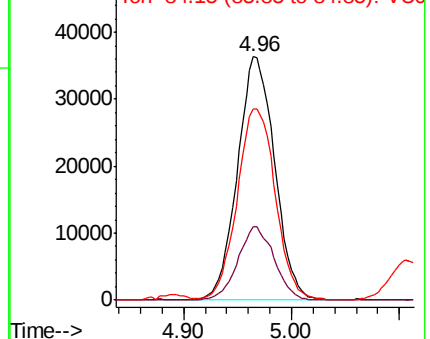
56 100

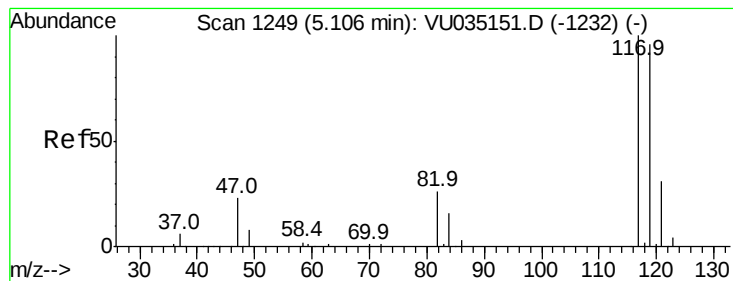
69 29.4 23.9 35.9

84 80.2 69.5 104.3



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: 4.929 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

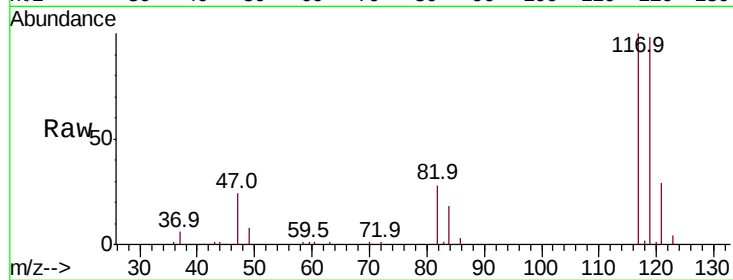
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 78936

Ion Ratio Lower Upper

117 100

119 96.2 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.11

40000

30000

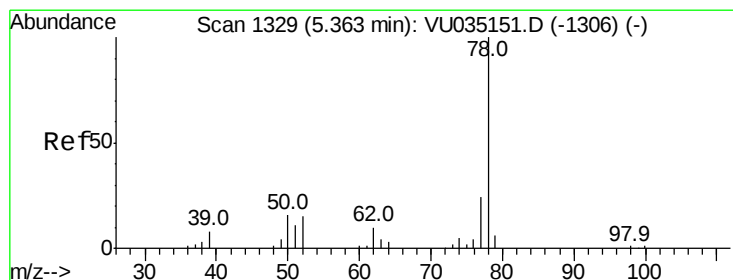
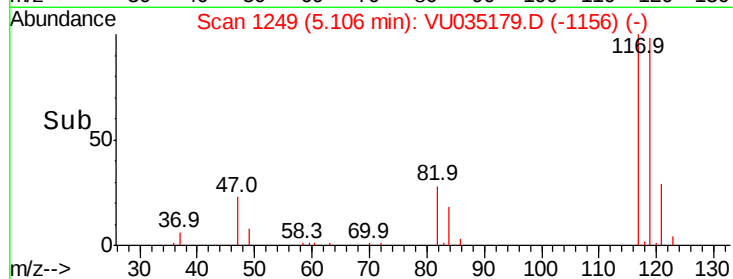
20000

10000

0

Time-->

5.00 5.10 5.20



#33

Benzene

Concen: 4.735 ug/L

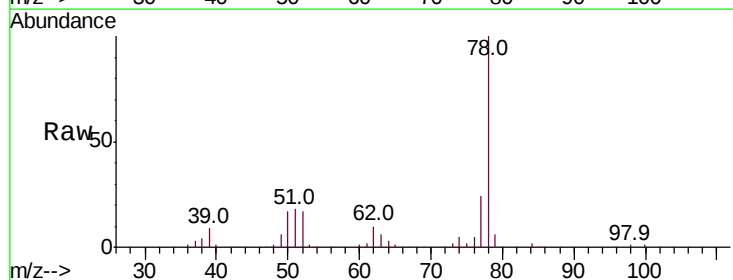
RT: 5.36 min Scan# 1329

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

Tgt Ion: 78 Resp: 234570



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.36

120000

100000

80000

60000

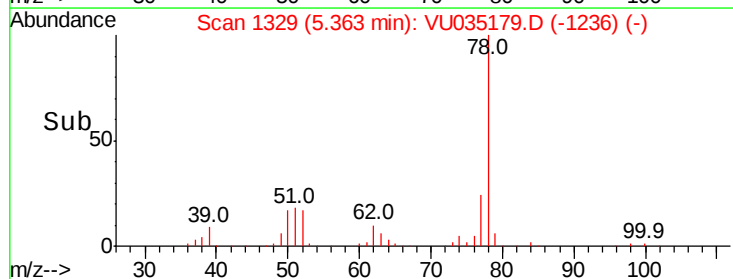
40000

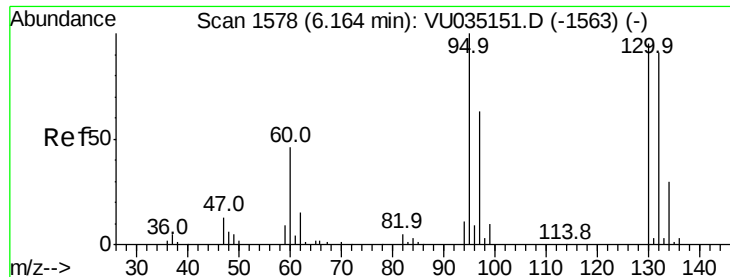
20000

0

Time-->

5.20 5.30 5.40 5.50

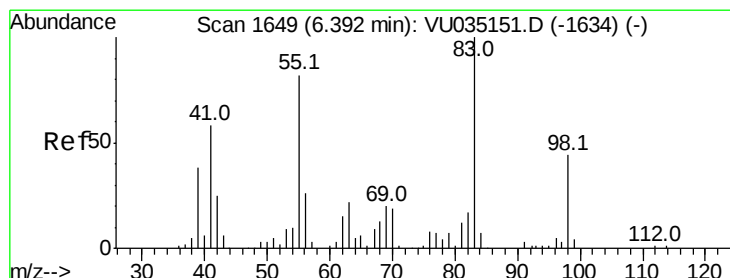
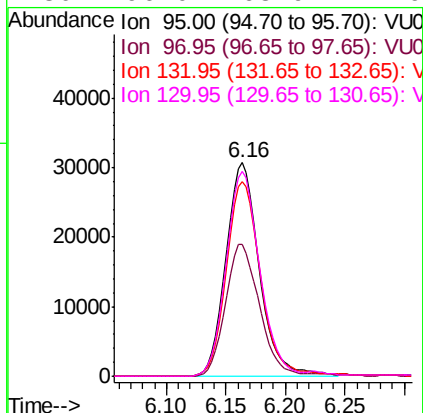
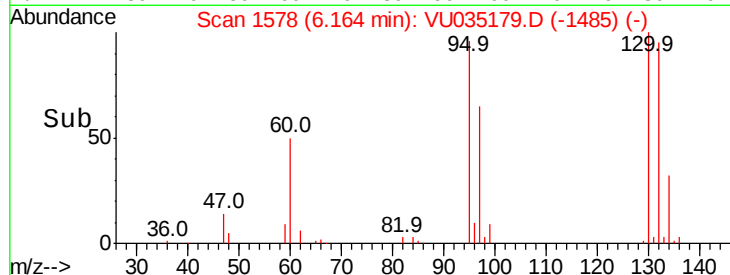
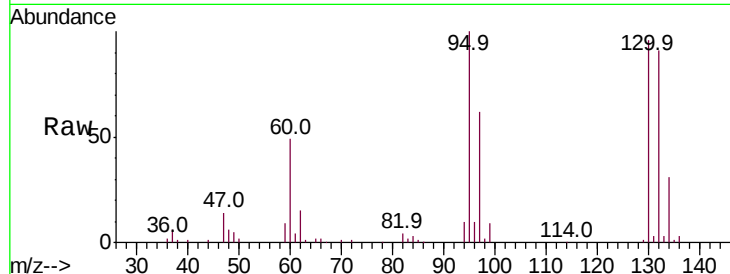




#34
 Trichloroethene
 Concen: 4.681 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

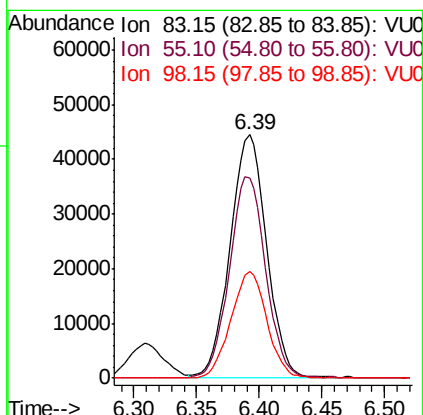
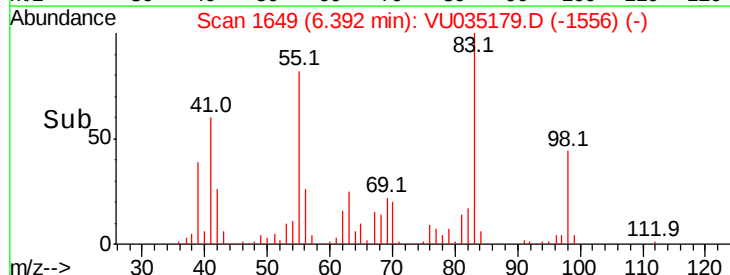
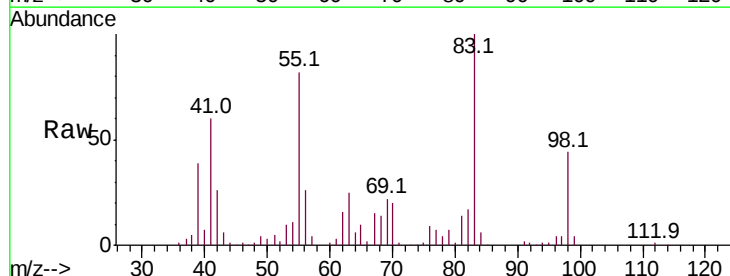
Instrument :
 MSVOA_U
 ClientSampled :

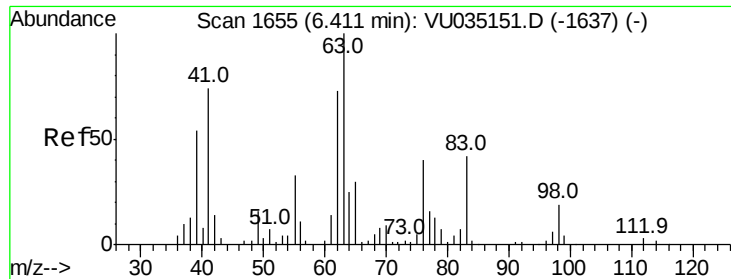
Tot Ion:	95	Resp:	59796
Ion	Ratio	Lower	Upper
95	100		
97	62.0	44.5	82.7
132	91.4	66.6	123.8
130	96.0	68.9	127.9



#35
 Methylcyclohexane
 Concen: 4.334 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

Tgt Ion:	83	Resp:	89680
Ion	Ratio	Lower	Upper
83	100		
55	82.6	62.6	94.0
98	43.3	36.2	54.2

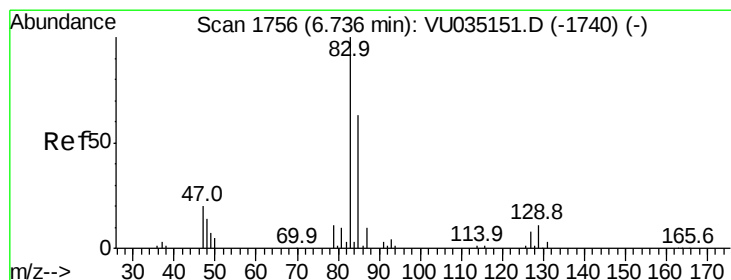
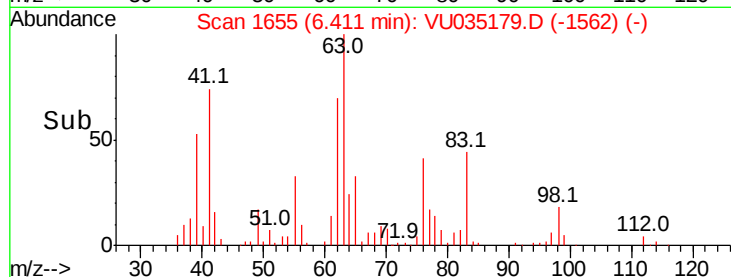
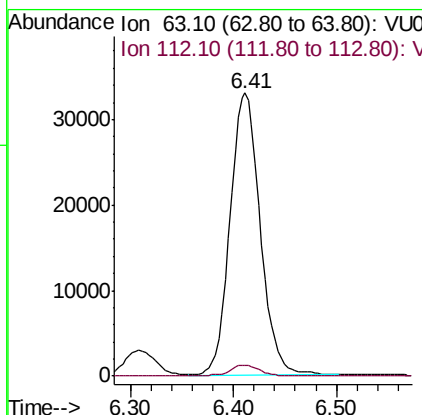
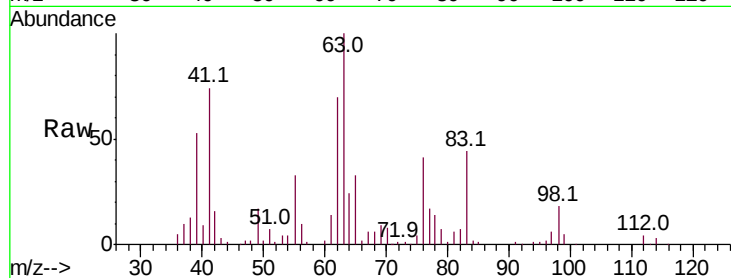




#37
 1,2-Dichloropropane
 Concen: 5.037 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

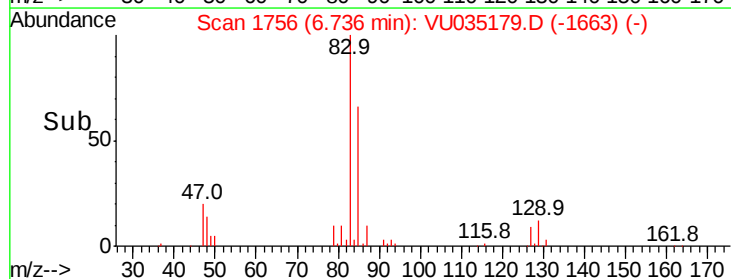
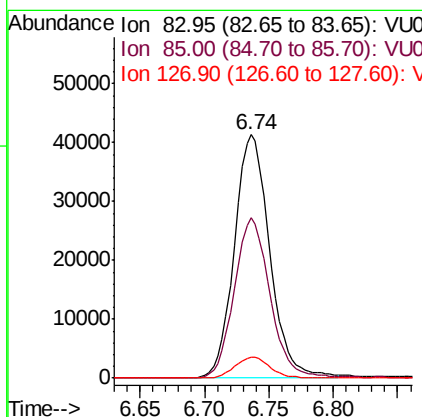
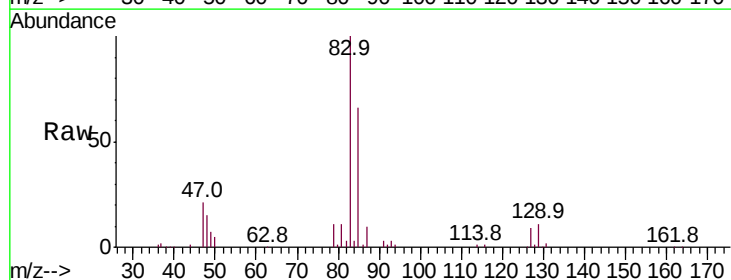
Instrument :
 MSVOA_U
 ClientSampleId :

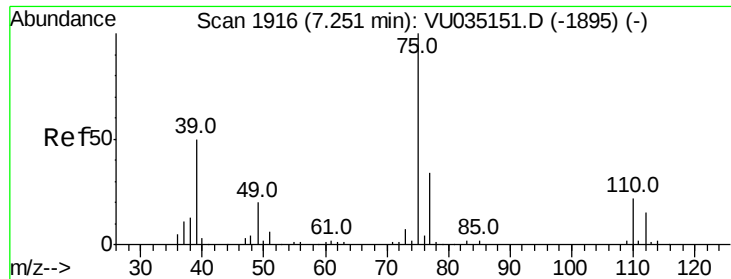
Tot Ion: 63 Resp: 67317
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.1 4.7



#38
 Bromodichloromethane
 Concen: 5.038 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

Tgt Ion: 83 Resp: 78918
 Ion Ratio Lower Upper
 83 100
 85 65.7 44.0 81.8
 127 8.6 7.0 10.4

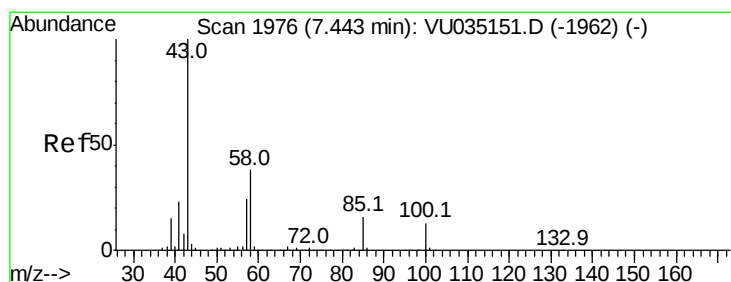
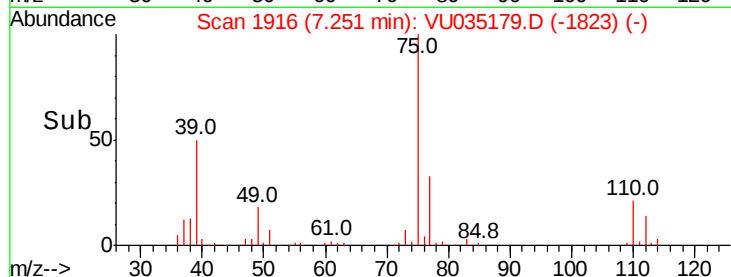
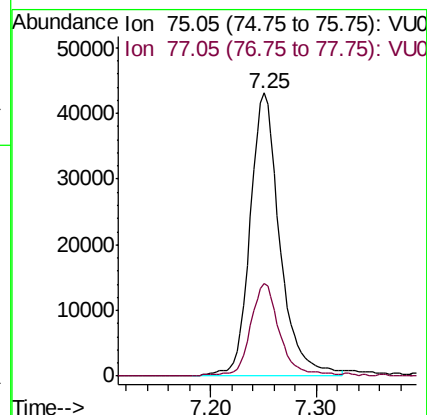
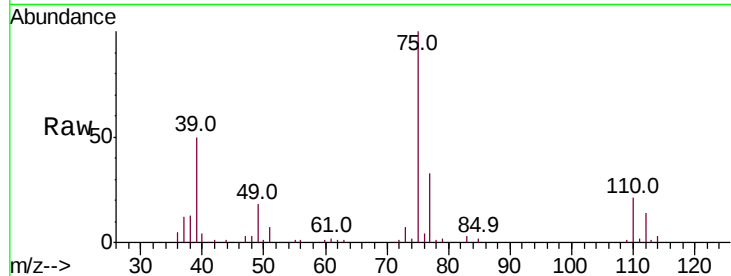




#39
 cis-1,3-Dichloropropene
 Concen: 4.694 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

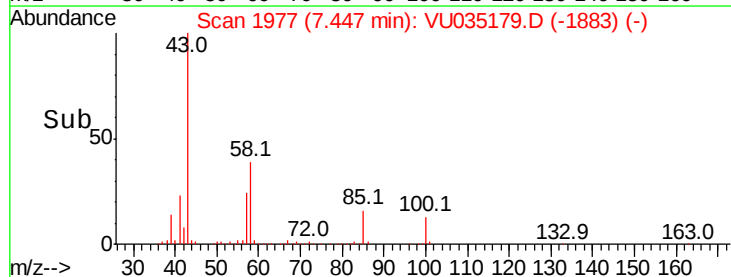
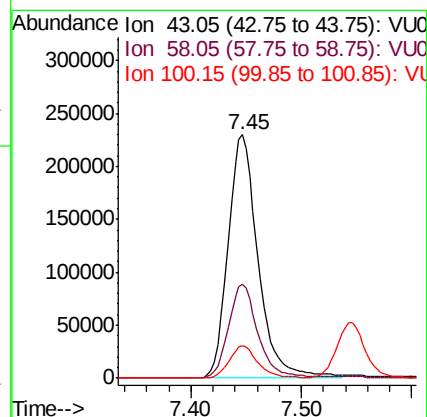
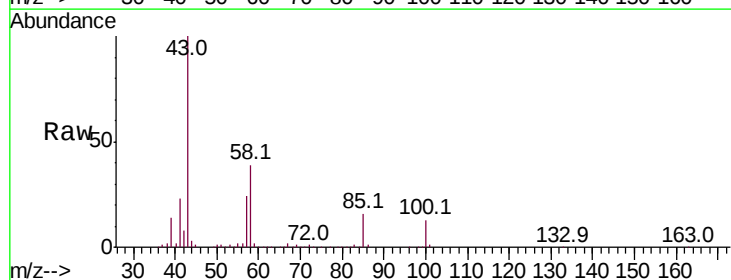
Instrument :
 MSVOA_U
 ClientSampleId :

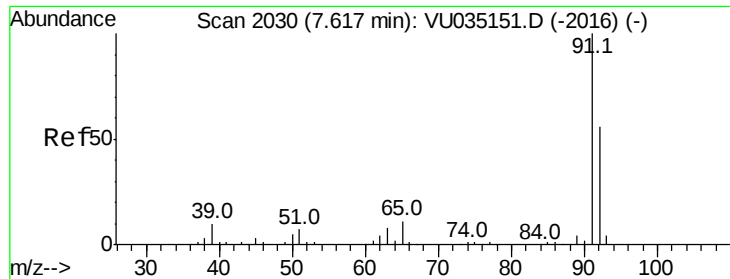
Tot Ion: 75 Resp: 84966
 Ion Ratio Lower Upper
 75 100
 77 32.7 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 51.563 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

Tgt Ion: 43 Resp: 433663
 Ion Ratio Lower Upper
 43 100
 58 38.0 32.4 48.6
 100 12.8 11.9 17.9





#42

Toluene

Concen: 4.933 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

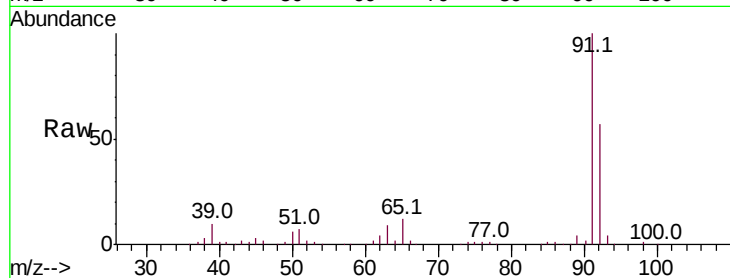
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 255089

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU035151.D (-2016) (-)

Ion 92.15 (91.85 to 92.85): VU035151.D (-2016) (-)

7.62

150000

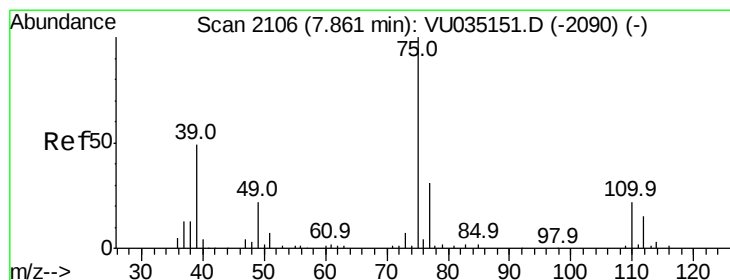
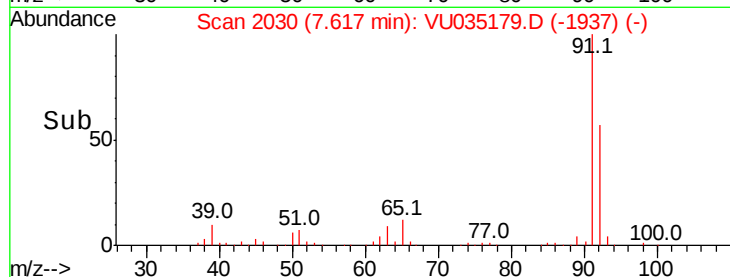
100000

50000

0

Time-->

7.50 7.60 7.70



#44

trans-1,3-Dichloropropene

Concen: 4.942 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU035179.D

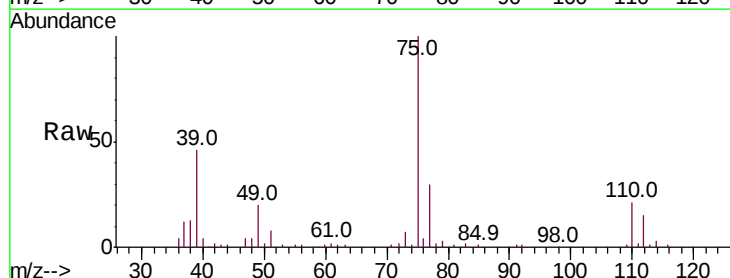
Acq: 15 Oct 2019 09:22

Tgt Ion: 75 Resp: 69290

Ion Ratio Lower Upper

75 100

77 30.4 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU035151.D (-2090) (-)

Ion 77.05 (76.75 to 77.75): VU035151.D (-2090) (-)

7.86

40000

30000

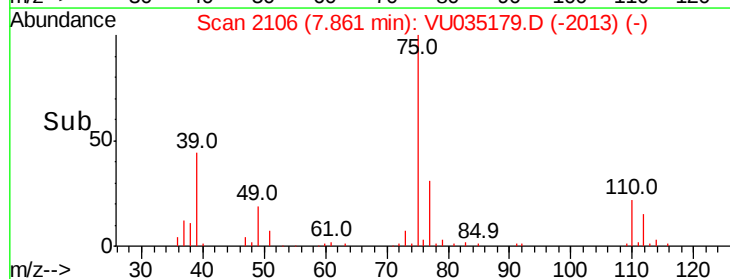
20000

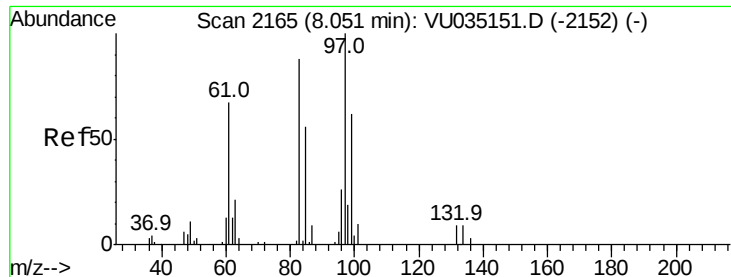
10000

0

Time-->

7.80 7.90

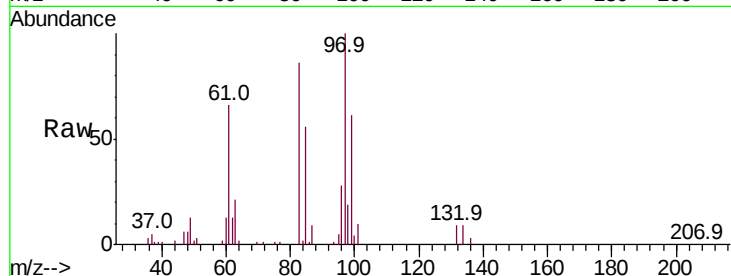




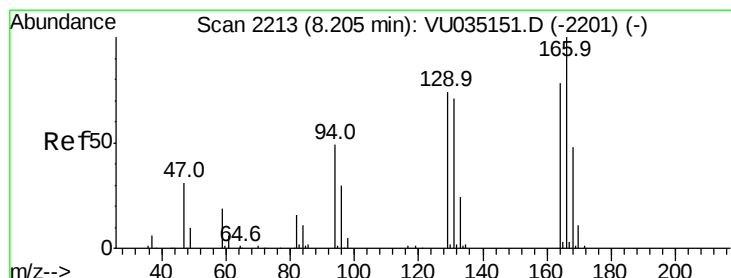
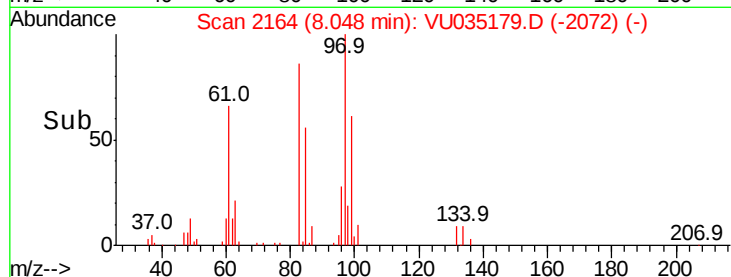
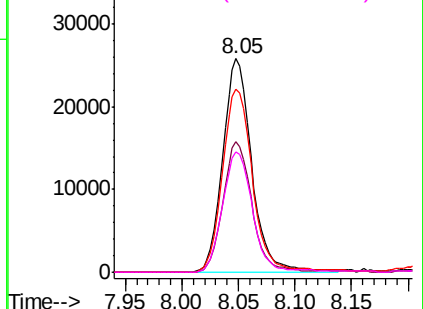
#45
1,1,2-Trichloroethane
Concen: 5.190 ug/L
RT: 8.05 min Scan# 2164
Delta R.T. -0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 46048
Ion Ratio Lower Upper
97 100
99 61.1 42.3 78.5
83 85.5 58.0 107.6
85 56.5 37.8 70.2

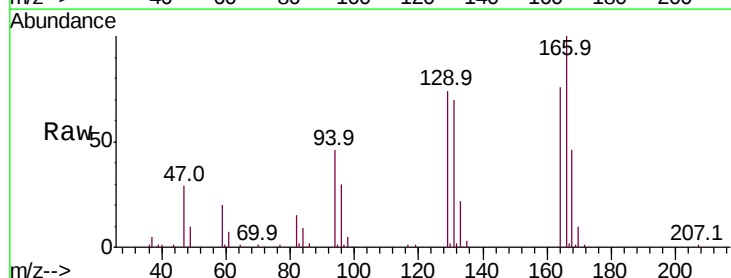


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0

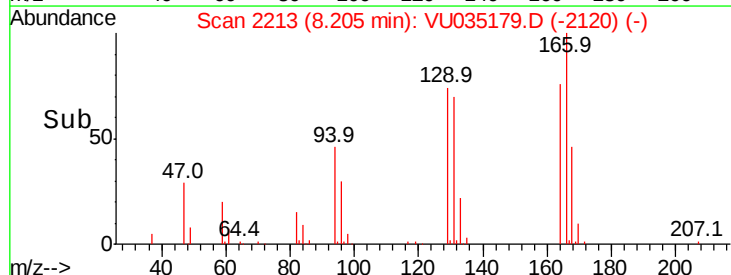
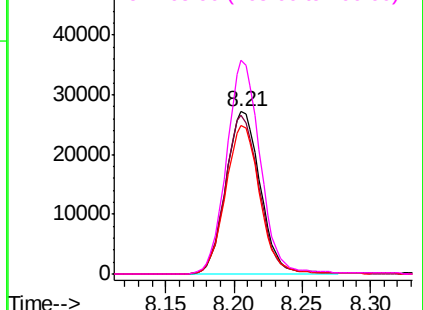


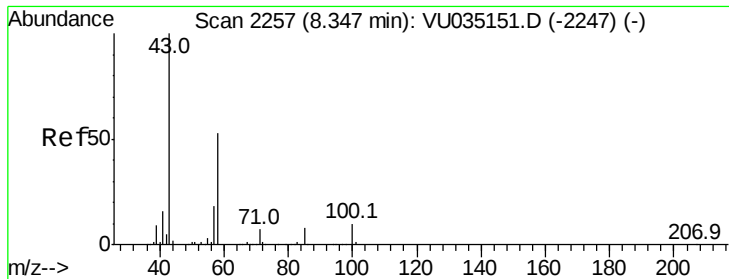
#47
Tetrachloroethene
Concen: 4.617 ug/L
RT: 8.21 min Scan# 2213
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Tgt Ion:164 Resp: 47742
Ion Ratio Lower Upper
164 100
129 97.7 68.5 127.1
131 91.6 67.3 124.9
166 131.7 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

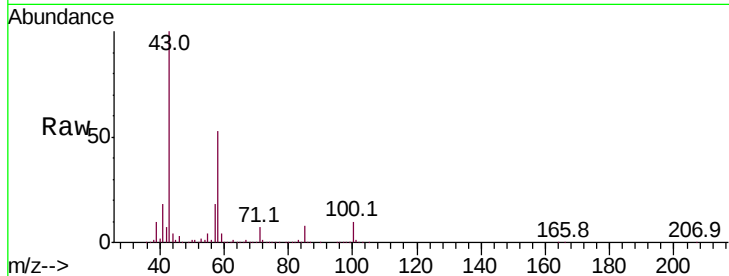




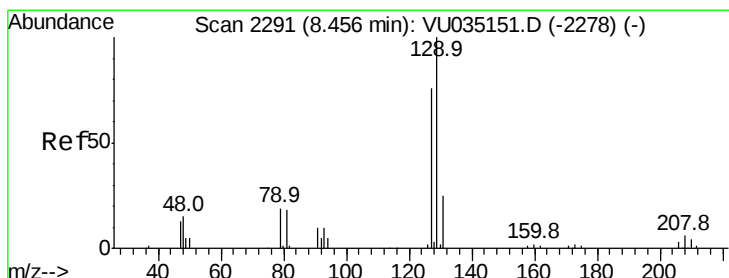
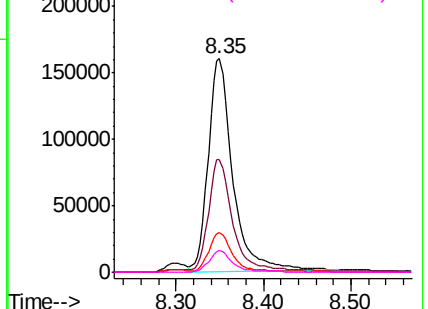
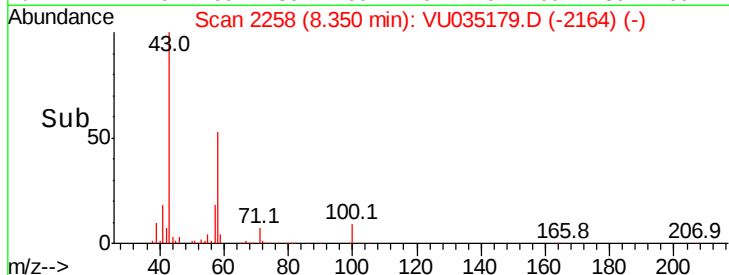
#48
2-Hexanone
Concen: 53.845 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	310493
Ion	Ratio	Lower	Upper
43	100		
58	53.7	44.1	66.1
57	18.0	15.8	23.8
100	9.9	9.4	14.2

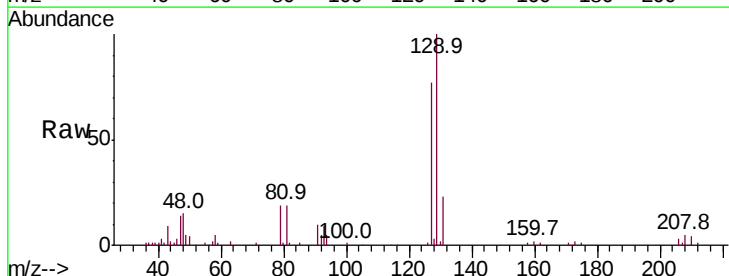


Abundance Ion 43.05 (42.75 to 43.75): VU035179.D (-2247) (-)
Ion 58.05 (57.75 to 58.75): VU035179.D (-2247) (-)
Ion 57.20 (56.90 to 57.90): VU035179.D (-2247) (-)
Ion 100.15 (99.85 to 100.85): VU035179.D (-2247) (-)

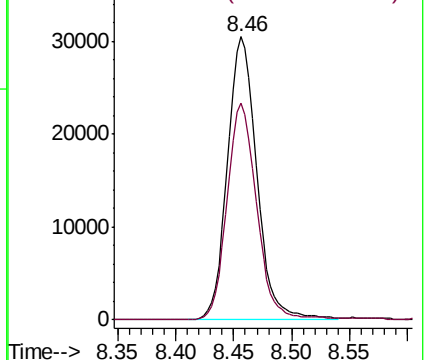
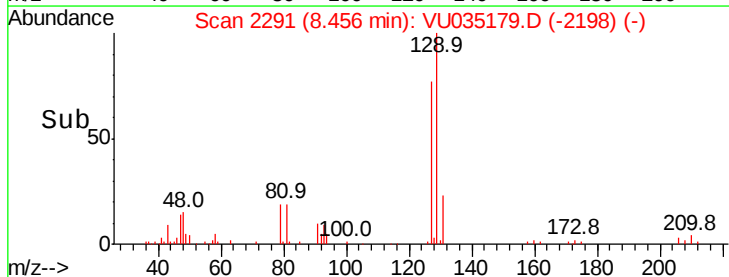


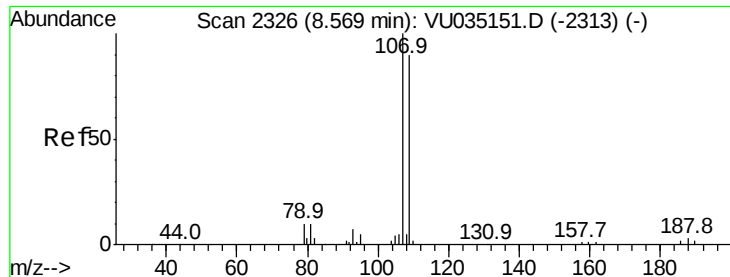
#49
Dibromochloromethane
Concen: 5.217 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Tgt Ion:	129	Resp:	53506
Ion	Ratio	Lower	Upper
129	100		
127	76.6	51.9	96.5



Abundance Ion 128.95 (128.65 to 129.65): VU035179.D (-2278) (-)
Ion 126.90 (126.60 to 127.60): VU035179.D (-2278) (-)

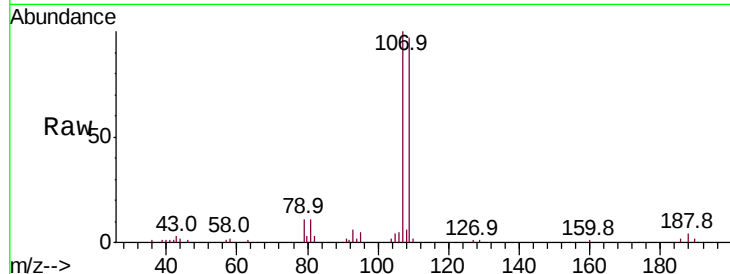




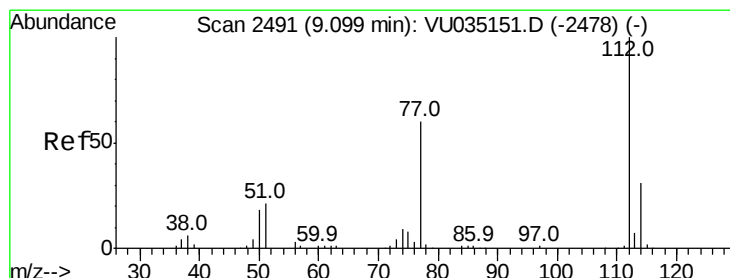
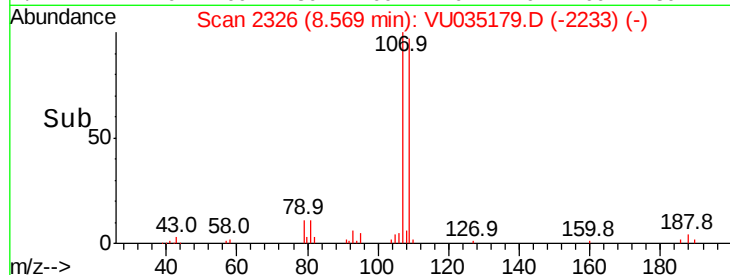
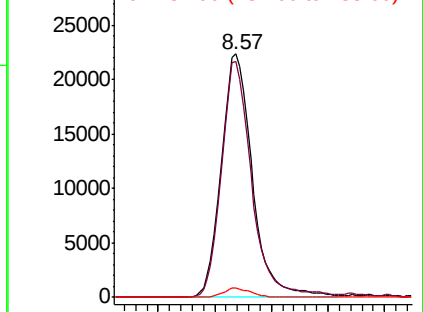
#50
1,2-Dibromoethane
Concen: 5.052 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	97.0	64.8	120.4
188	3.8	3.0	4.6

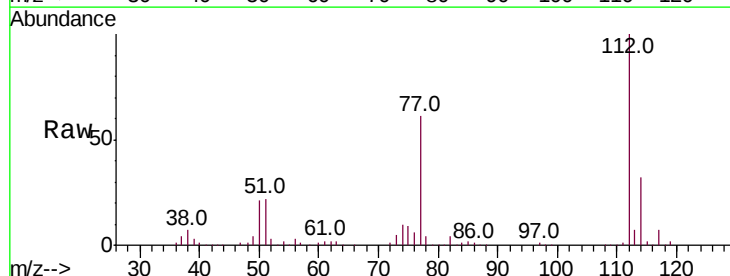


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

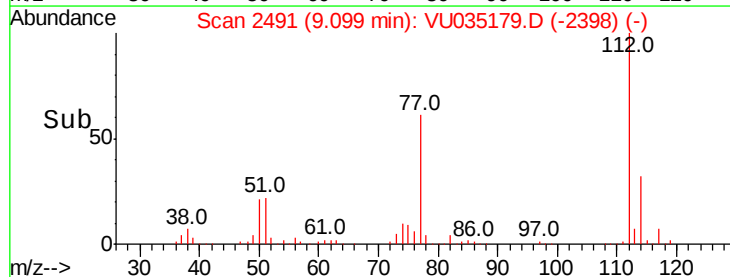
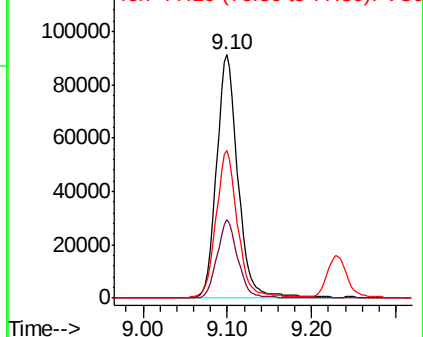


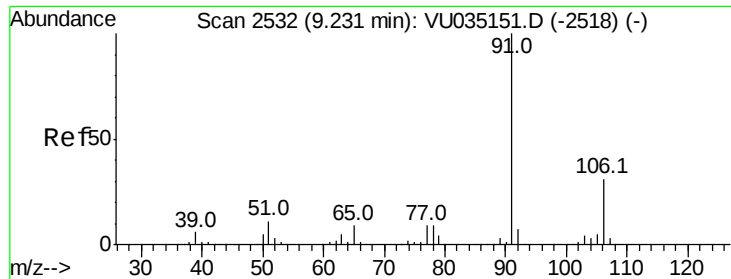
#51
Chlorobenzene
Concen: 4.819 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.1	41.1
77	60.7	46.9	70.3



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): VU

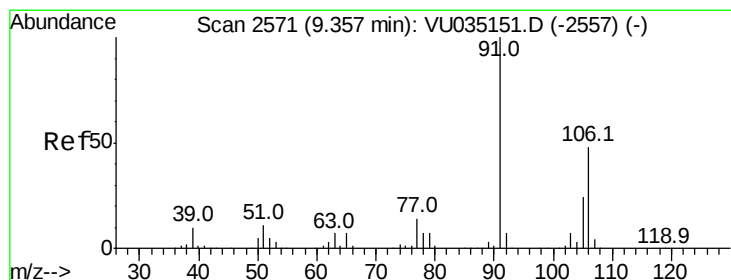
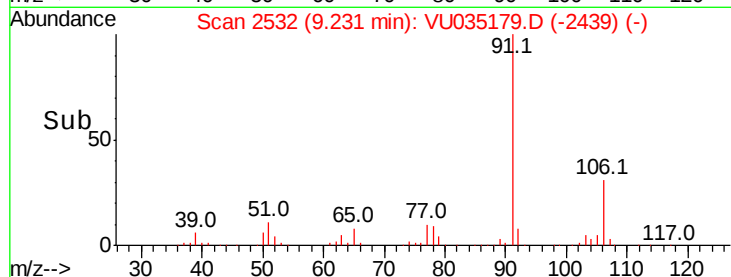
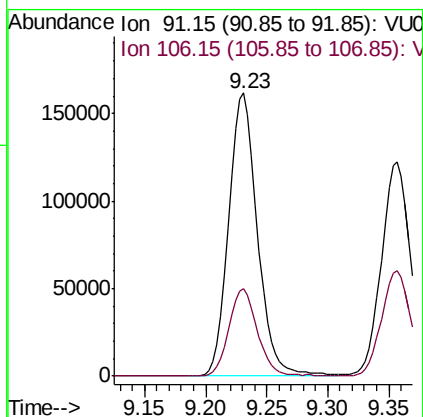
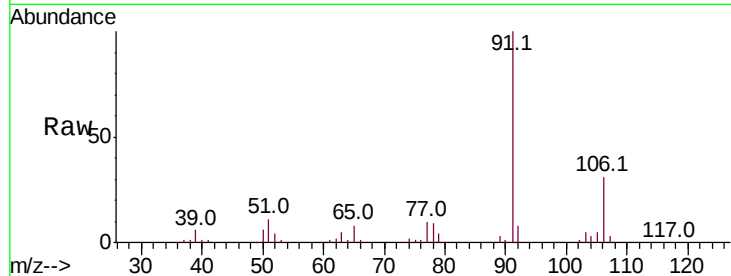




#52
Ethylbenzene
Concen: 4.675 ug/L
RT: 9.23 min Scan# 2532
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

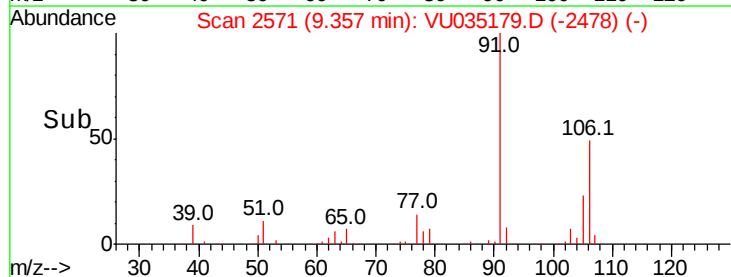
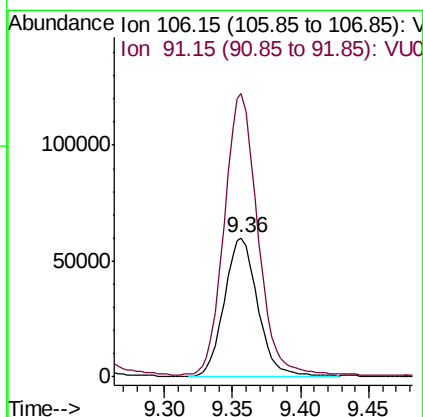
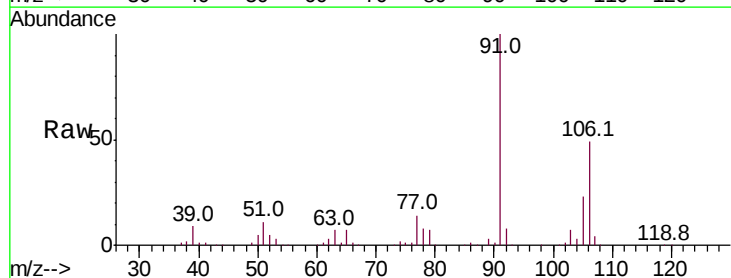
Instrument :
MSVOA_U
ClientSampleId :

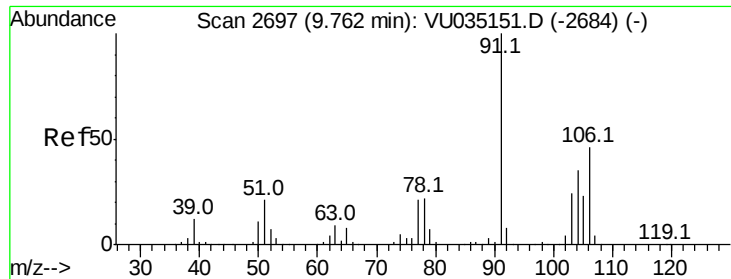
Tot Ion: 91 Resp: 267021
Ion Ratio Lower Upper
91 100
106 30.8 21.6 40.2



#53
m,p-Xylene
Concen: 4.777 ug/L
RT: 9.36 min Scan# 2571
Delta R.T. 0.00 min
Lab File: VU035179.D
Acq: 15 Oct 2019 09:22

Tgt Ion: 106 Resp: 100784
Ion Ratio Lower Upper
106 100
91 203.2 147.6 274.0





#54

o-Xylene

Concen: 4.732 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. -0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

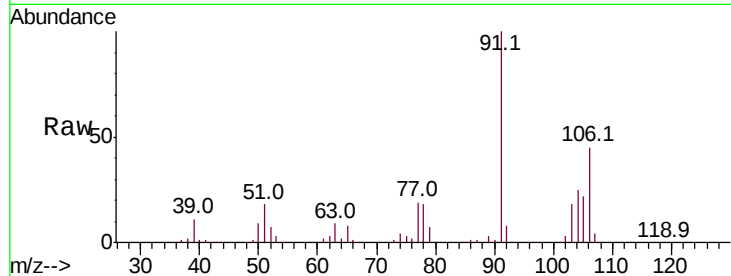
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 97631

Ion Ratio Lower Upper

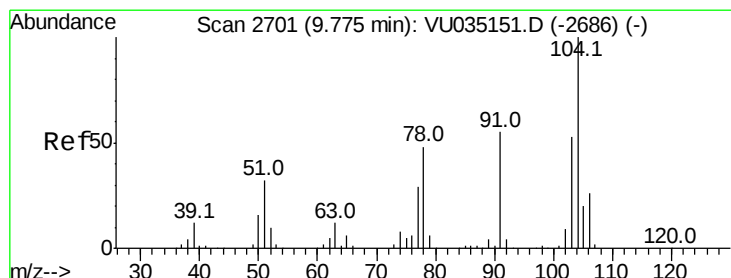
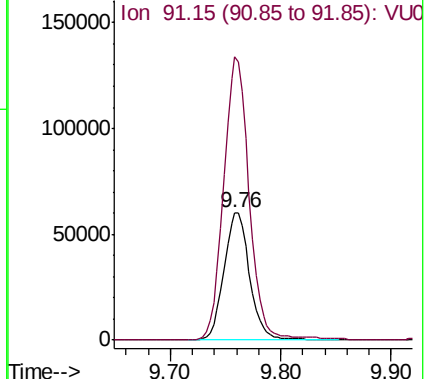
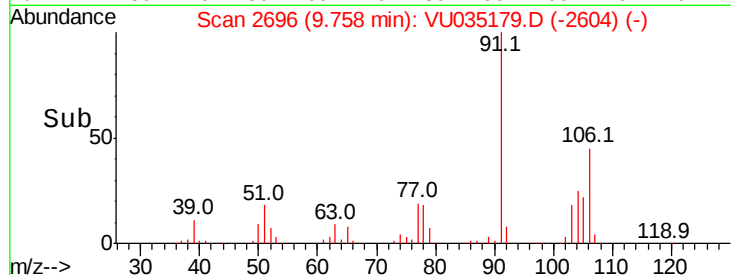
106 100

91 222.1 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.994 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU035179.D

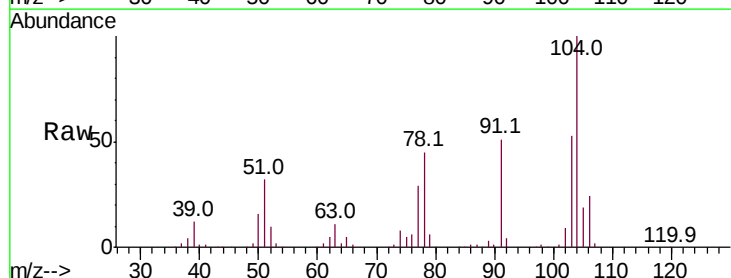
Acq: 15 Oct 2019 09:22

Tgt Ion:104 Resp: 166868

Ion Ratio Lower Upper

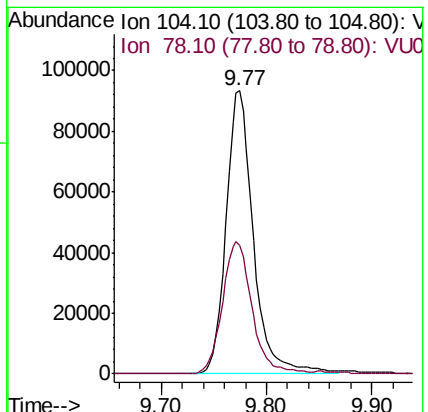
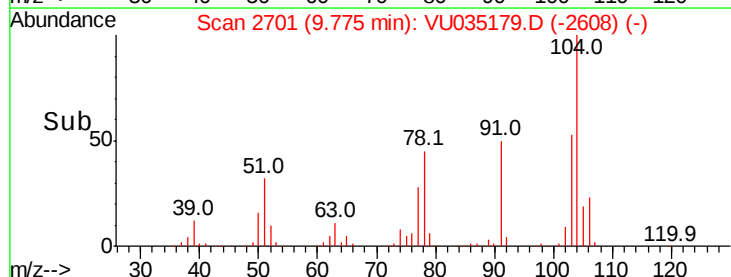
104 100

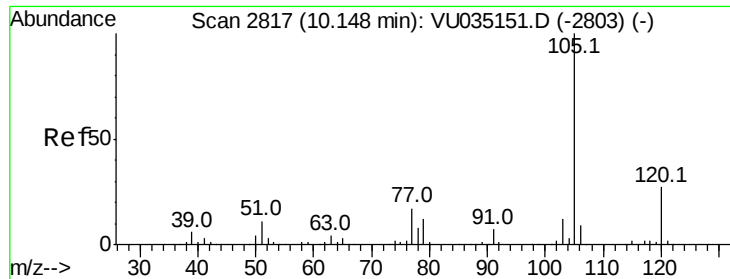
78 45.4 32.8 60.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.801 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

Instrument :

MSVOA_U

ClientSampleId :

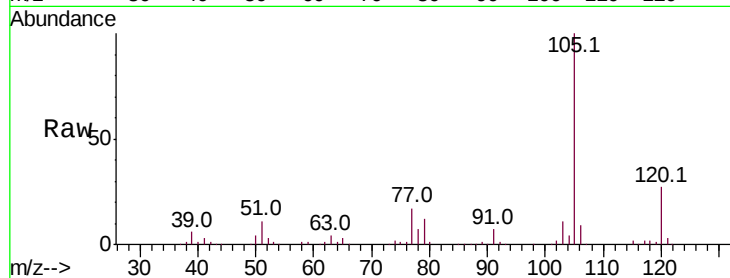
Tot Ion:105 Resp: 263884

Ion Ratio Lower Upper

105 100

120 26.0 21.3 31.9

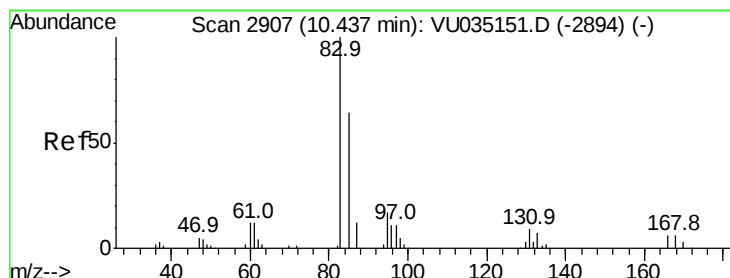
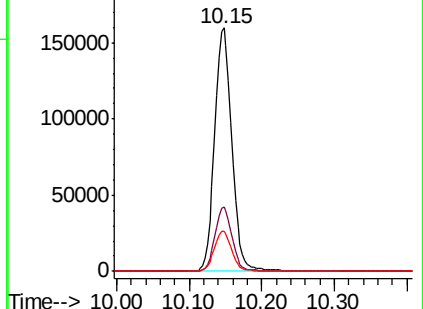
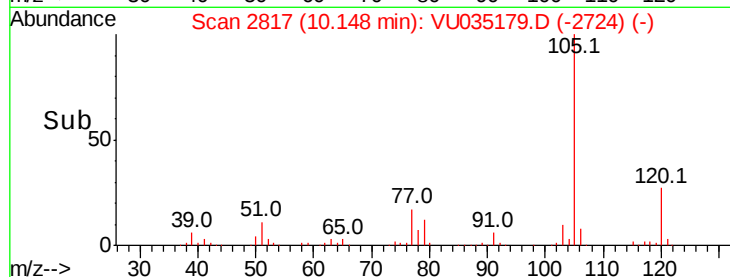
77 16.8 13.0 19.4



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: 5.165 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

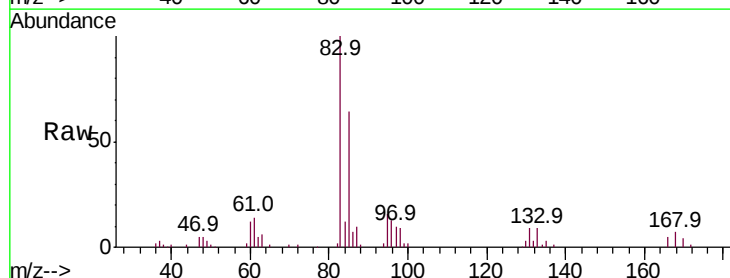
Tgt Ion: 83 Resp: 62319

Ion Ratio Lower Upper

83 100

85 64.0 44.6 82.8

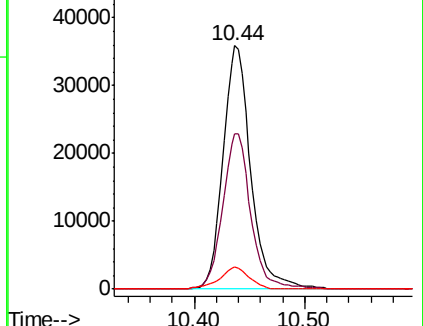
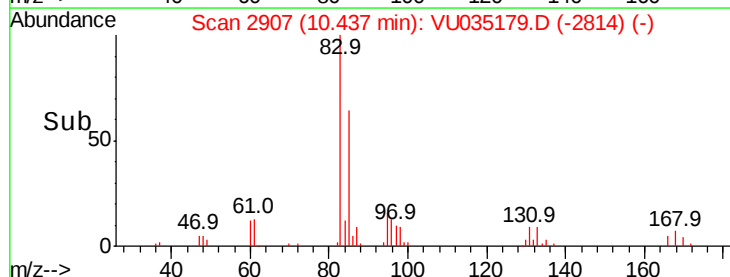
131 9.1 7.4 11.2

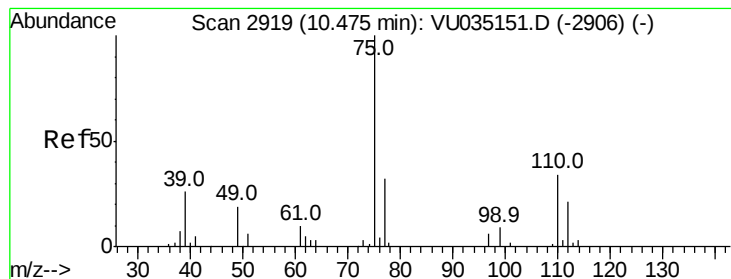


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.205 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

Instrument :

MSVOA_U

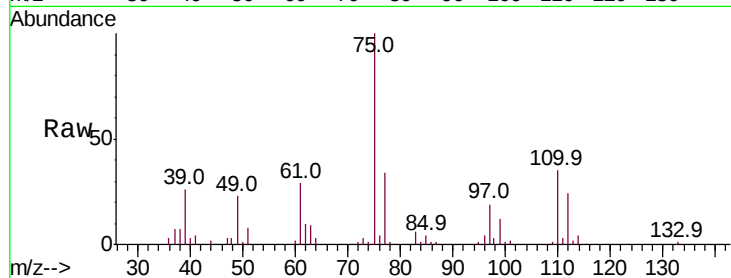
ClientSampleId :

Tot Ion: 75 Resp: 45023

Ion Ratio Lower Upper

75 100

77 33.2 26.5 39.7

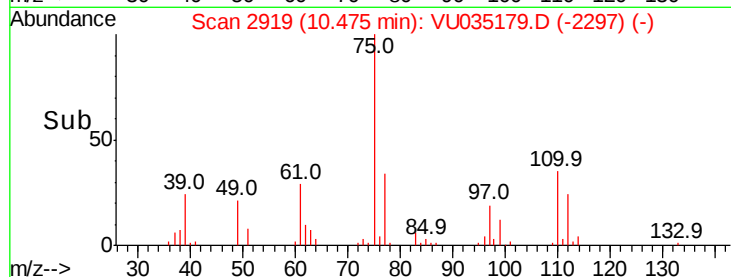


Abundance Ion 75.00 (74.70 to 75.70): VU035151.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU035151.D (-2906) (-)

10.48

Time-->

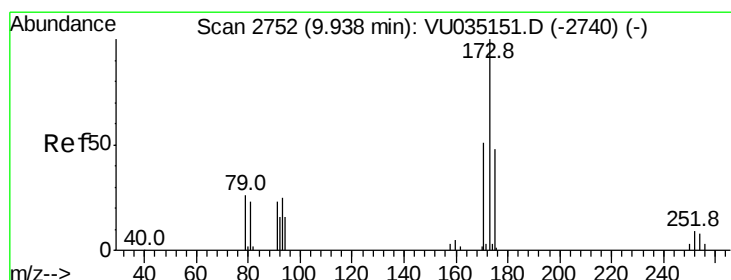


Abundance Ion 75.00 (74.70 to 75.70): VU035179.D (-2297) (-)

Ion 77.00 (76.70 to 77.70): VU035179.D (-2297) (-)

10.48

Time-->



#61

Bromoform

Concen: 5.032 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

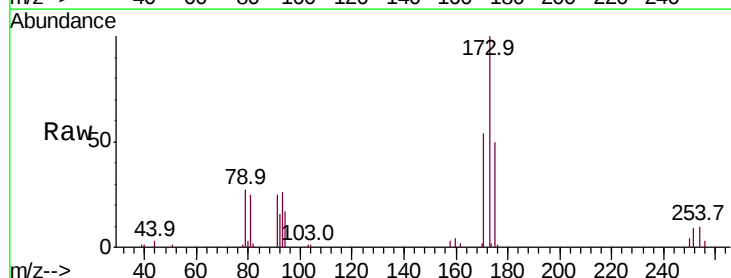
Tgt Ion: 173 Resp: 28967

Ion Ratio Lower Upper

173 100

175 50.9 37.2 55.8

254 8.1 6.6 9.8



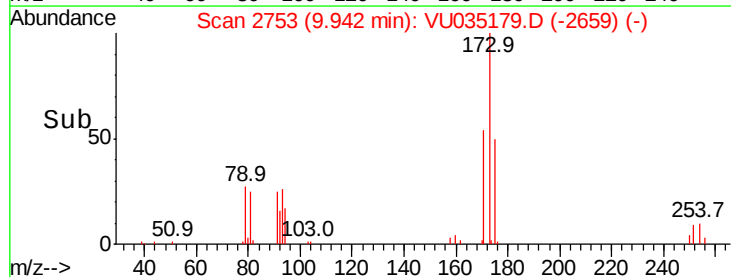
Abundance Ion 172.90 (172.60 to 173.60): VU035151.D (-2740) (-)

Ion 174.90 (174.60 to 175.60): VU035151.D (-2740) (-)

Ion 253.75 (253.45 to 254.45): VU035151.D (-2740) (-)

9.94

Time-->



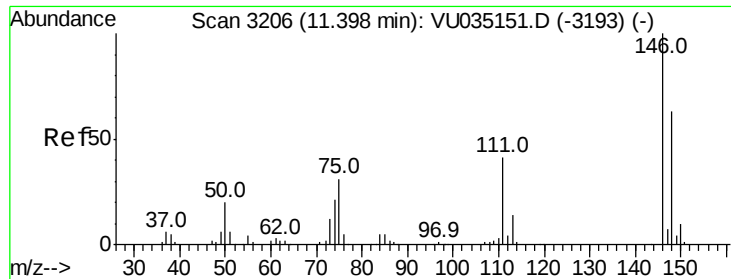
Abundance Ion 172.90 (172.60 to 173.60): VU035179.D (-2659) (-)

Ion 174.90 (174.60 to 175.60): VU035179.D (-2659) (-)

Ion 253.75 (253.45 to 254.45): VU035179.D (-2659) (-)

9.94

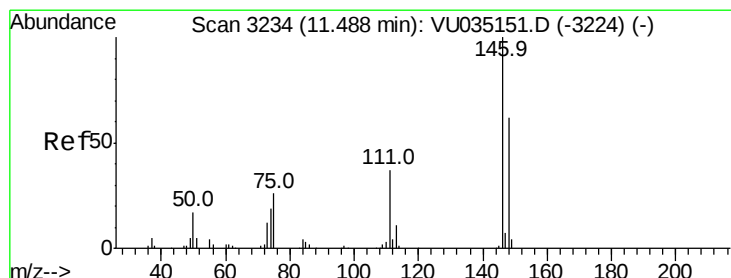
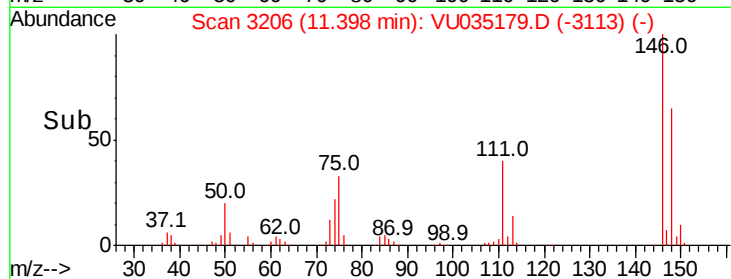
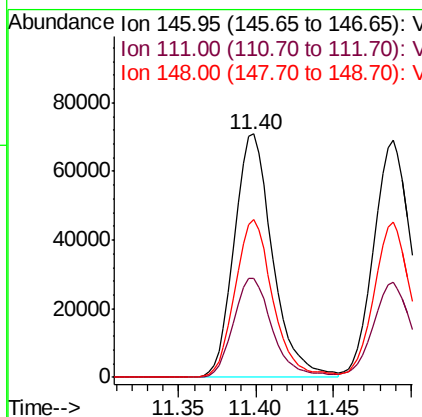
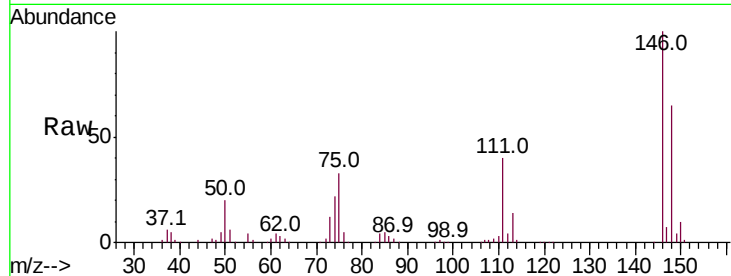
Time-->



#62
 1,3-Dichlorobenzene
 Concen: 4.717 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

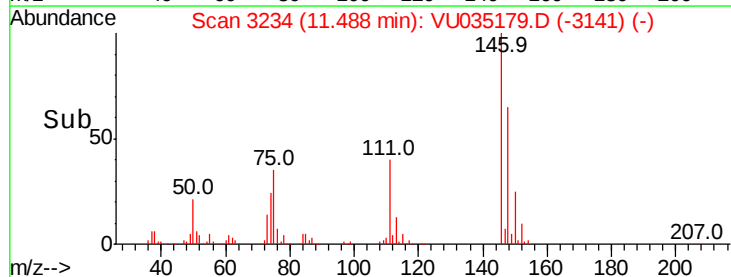
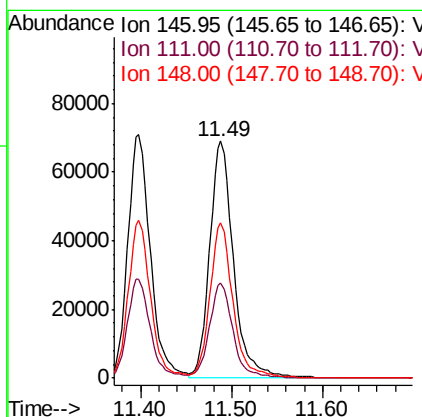
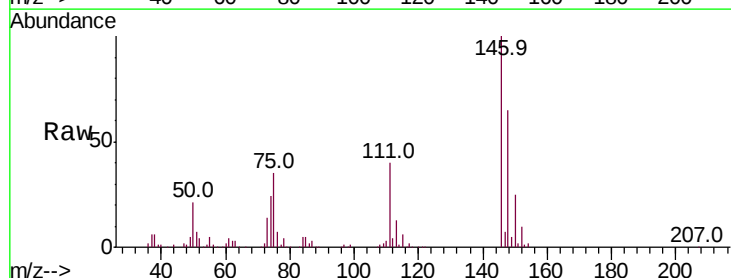
Instrument :
 MSVOA_U
 ClientSampleId :

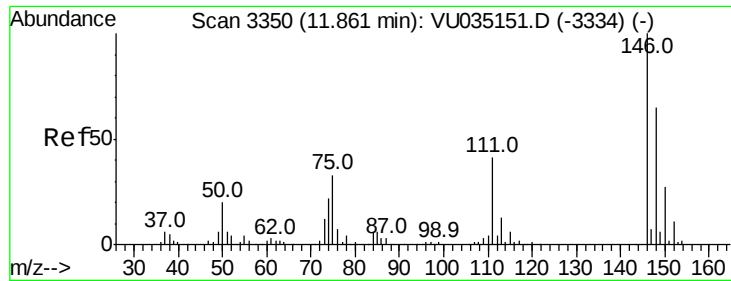
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	28.6	53.2
148	64.9	45.0	83.6



#63
 1,4-Dichlorobenzene
 Concen: 4.792 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	27.9	51.7
148	65.4	44.1	81.9





#65

1,2-Dichlorobenzene

Concen: 4.769 ug/L

RT: 11.86 min Scan# 3349

Delta R.T. -0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

Instrument :

MSVOA_U

ClientSampled :

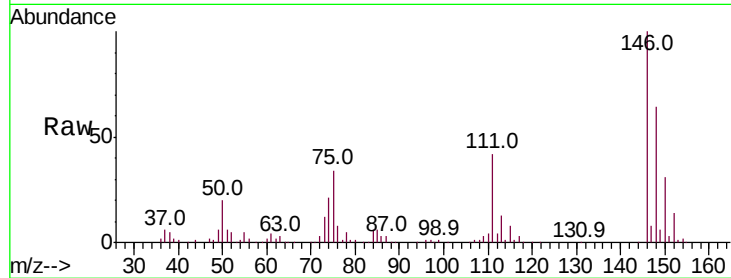
Tot Ion:146 Resp: 118964

Ion Ratio Lower Upper

146 100

111 42.1 34.2 51.4

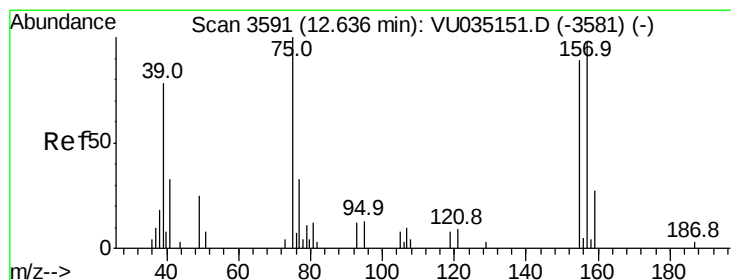
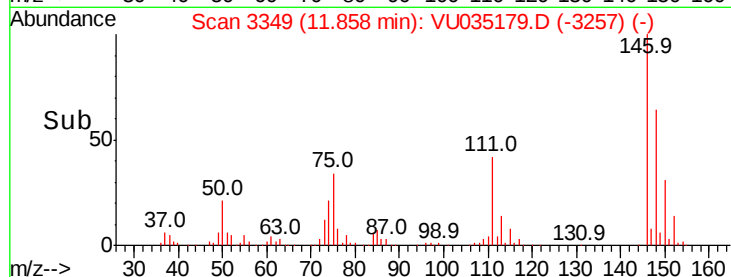
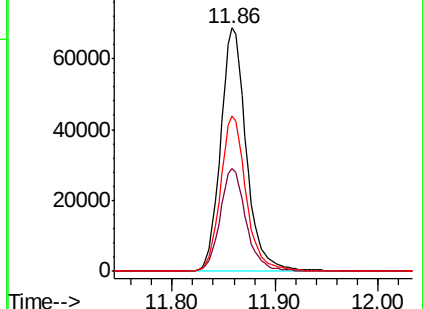
148 63.9 52.0 78.0



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: 5.085 ug/L

RT: 12.64 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

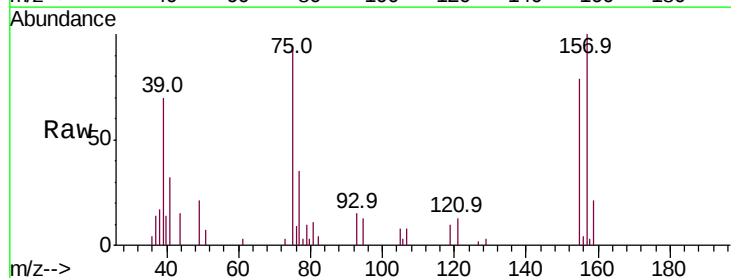
Tgt Ion: 75 Resp: 8062

Ion Ratio Lower Upper

75 100

155 84.4 67.1 100.7

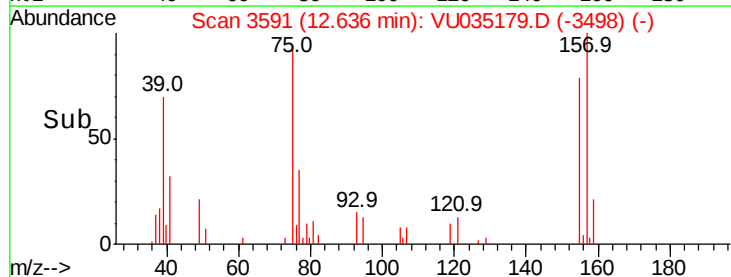
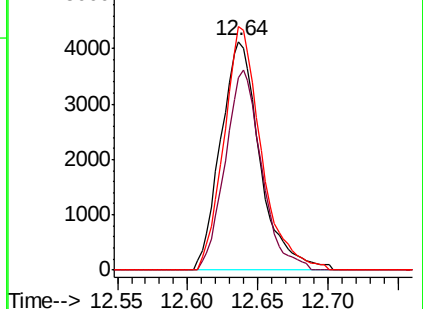
157 106.7 83.7 125.5

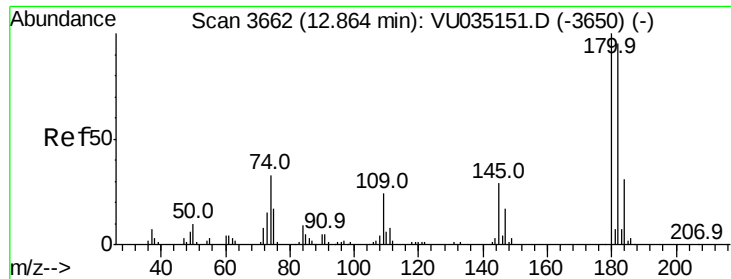


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

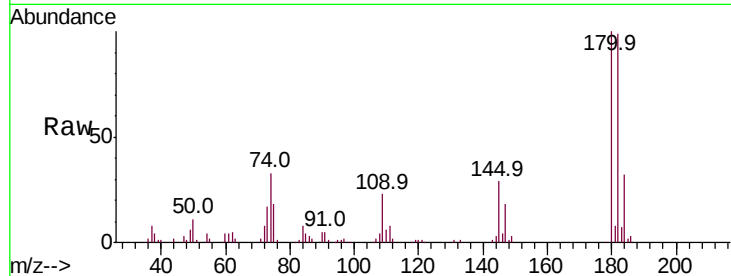




#67
 1,3,5-Trichlorobenzene
 Concen: 4.443 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.0	114.0
184	31.3	24.2	36.2
145	28.0	24.6	37.0



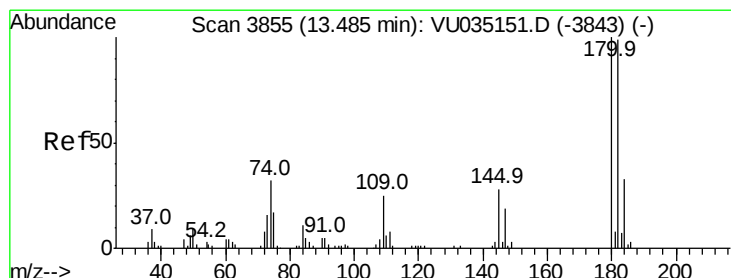
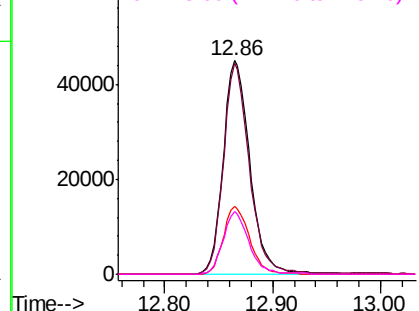
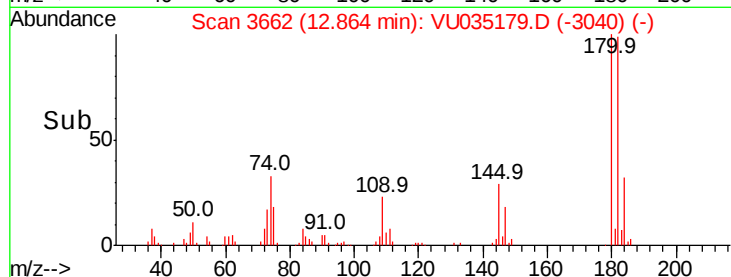
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

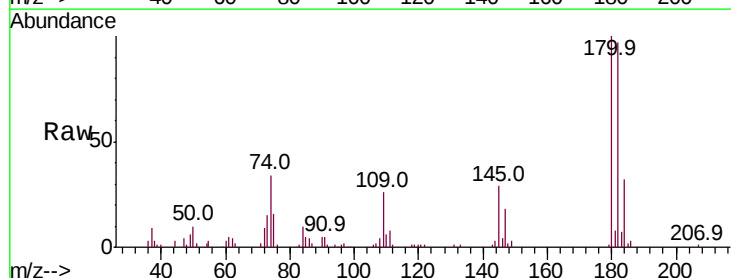
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.041 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU035179.D
 Acq: 15 Oct 2019 09:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.3	115.9
145	29.4	24.5	36.7

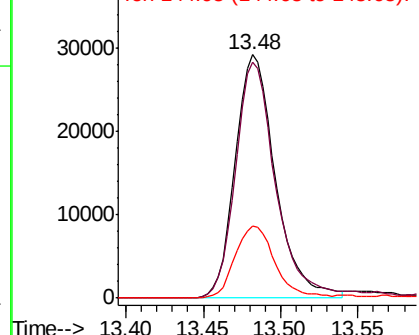
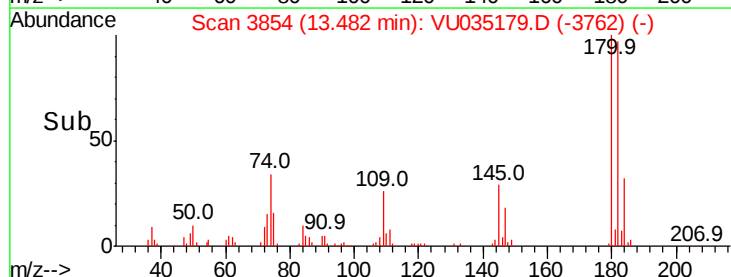


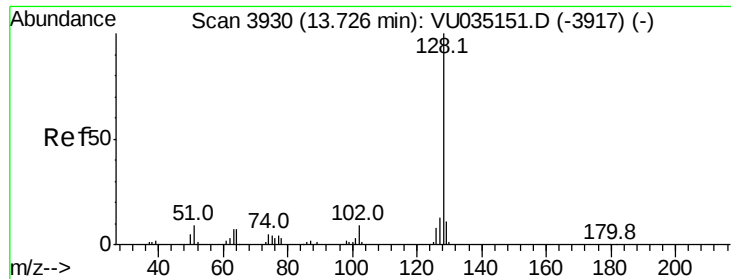
Abundance

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: 3.810 ug/L

RT: 13.72 min Scan# 3929

Delta R.T. -0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

Instrument :

MSVOA_U

ClientSampleId :

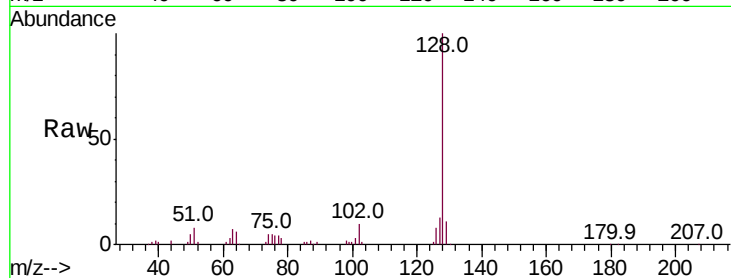
Tot Ion:128 Resp: 77454

Ion Ratio Lower Upper

128 100

129 10.0 8.7 13.1

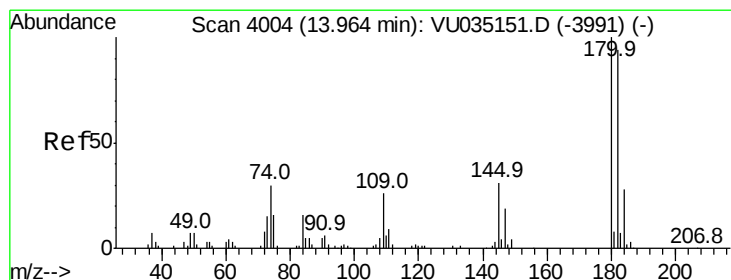
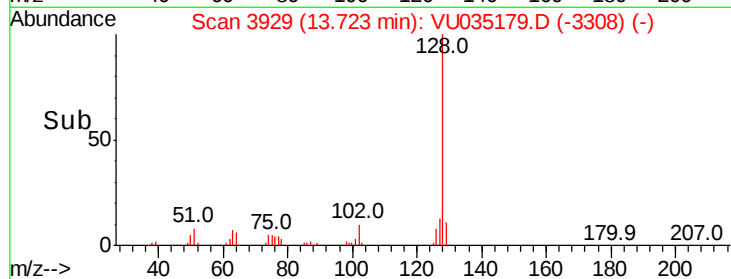
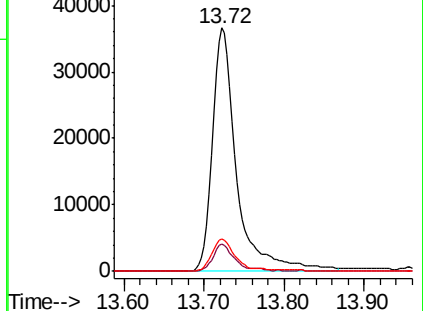
127 12.3 10.6 15.8



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: 4.448 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. 0.00 min

Lab File: VU035179.D

Acq: 15 Oct 2019 09:22

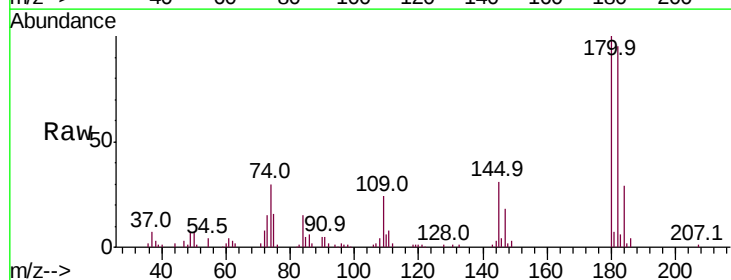
Tgt Ion:180 Resp: 56546

Ion Ratio Lower Upper

180 100

182 95.4 77.0 115.4

145 30.4 25.9 38.9



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

