

Data File : VU035007.D
Acq On : 09 Oct 2019 14:53
Operator : JC/SP
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Quant Time: Oct 10 03:40:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 10 03:36:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	163548	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	161874	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	81651	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	57097	5.91	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	118.20%
7) Chloroethane-d5	1.68	69	50861	5.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	112.80%
11) 1,1-Dichloroethene-d2	2.26	63	114170	5.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	112.00%
20) 2-Butanone-d5	4.17	46	145467	51.09	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.18%
24) Chloroform-d	4.62	84	101527	5.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.40%
26) 1,2-Dichloroethane-d4	5.29	65	55427	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%
32) Benzene-d6	5.32	84	204175	5.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.60%
36) 1,2-Dichloropropane-d6	6.31	67	68002	5.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.20%
41) Toluene-d8	7.55	98	195859	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.60%
43) trans-1,3-Dichloropropene-	7.83	79	23461	5.14	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.80%
46) 2-Hexanone-d5	8.30	63	113466	52.24	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.48%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	58096	5.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.60%
64) 1,2-Dichlorobenzene-d4	11.84	152	70534	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	78408	5.246	ug/L 99
3) Chloromethane	1.32	50	87937	5.363	ug/L 100
5) Vinyl chloride	1.40	62	84928	5.273	ug/L 99
6) Bromomethane	1.62	94	46467	5.190	ug/L 97
8) Chloroethane	1.69	64	50122	5.189	ug/L 97
9) Trichlorofluoromethane	1.88	101	106731	5.480	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	62233	5.565	ug/L 95
12) 1,1-Dichloroethene	2.27	96	56143	5.344	ug/L 89
13) Acetone	2.31	43	123660	53.033	ug/L 94
14) Carbon disulfide	2.47	76	177814	5.086	ug/L 99
15) Methyl Acetate	2.60	43	31760	5.117	ug/L 96
16) Methylene chloride	2.68	84	68503	5.267	ug/L 91
17) Methyl tert-butyl Ether	2.99	73	154584	5.394	ug/L 98
18) trans-1,2-Dichloroethene	2.96	96	59117	5.256	ug/L 92
19) 1,1-Dichloroethane	3.42	63	121551	5.437	ug/L 100
21) 2-Butanone	4.25	43	171636	51.688	ug/L 96
22) cis-1,2-Dichloroethene	4.20	96	66749	5.320	ug/L 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	28954	5.506	ug/L	94
25) Chloroform	4.65	83	127042	5.057	ug/L	100
27) 1,2-Dichloroethane	5.38	62	76285	5.200	ug/L	99
29) 1,1,1-Trichloroethane	4.89	97	99051	5.448	ug/L	98
30) Cyclohexane	4.97	56	101461	5.076	ug/L	97
31) Carbon tetrachloride	5.11	117	85825	5.444	ug/L	97
33) Benzene	5.37	78	262750	5.389	ug/L	100
34) Trichloroethene	6.16	95	66715	5.305	ug/L	99
35) Methylcyclohexane	6.39	83	106003	5.205	ug/L	98
37) 1,2-Dichloropropane	6.41	63	70380	5.351	ug/L	100
38) Bromodichloromethane	6.74	83	81733	5.301	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	91230	5.120	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	428347	51.744	ug/L	96
42) Toluene	7.62	91	279355	5.489	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	70475	5.106	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	48369	5.539	ug/L	93
47) Tetrachloroethene	8.21	164	54645	5.368	ug/L	95
48) 2-Hexanone	8.35	43	285099	50.230	ug/L	98
49) Dibromochloromethane	8.46	129	55272	5.476	ug/L	97
50) 1,2-Dibromoethane	8.57	107	43402	5.200	ug/L	95
51) Chlorobenzene	9.10	112	179847	5.453	ug/L	98
52) Ethylbenzene	9.23	91	305257	5.430	ug/L	98
53) m,p-Xylene	9.36	106	113852	5.483	ug/L	94
54) o-Xylene	9.76	106	112066	5.518	ug/L	94
55) Styrene	9.77	104	186003	5.656	ug/L	98
56) Isopropylbenzene	10.15	105	303788	5.615	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	65193	5.489	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	45152	5.303	ug/L	99
61) Bromoform	9.94	173	30552	5.456	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	136849	5.441	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	135694	5.345	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	128197	5.282	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	8165	5.294	ug/L	99
67) 1,3,5-Trichlorobenzene	12.87	180	89297	5.243	ug/L	99
68) 1,2,4-trichlorobenzene	13.48	180	58148	4.571	ug/L	97
69) Naphthalene	13.73	128	77711	3.929	ug/L	97
70) 1,2,3-Trichlorobenzene	13.97	180	60378	4.881	ug/L	98

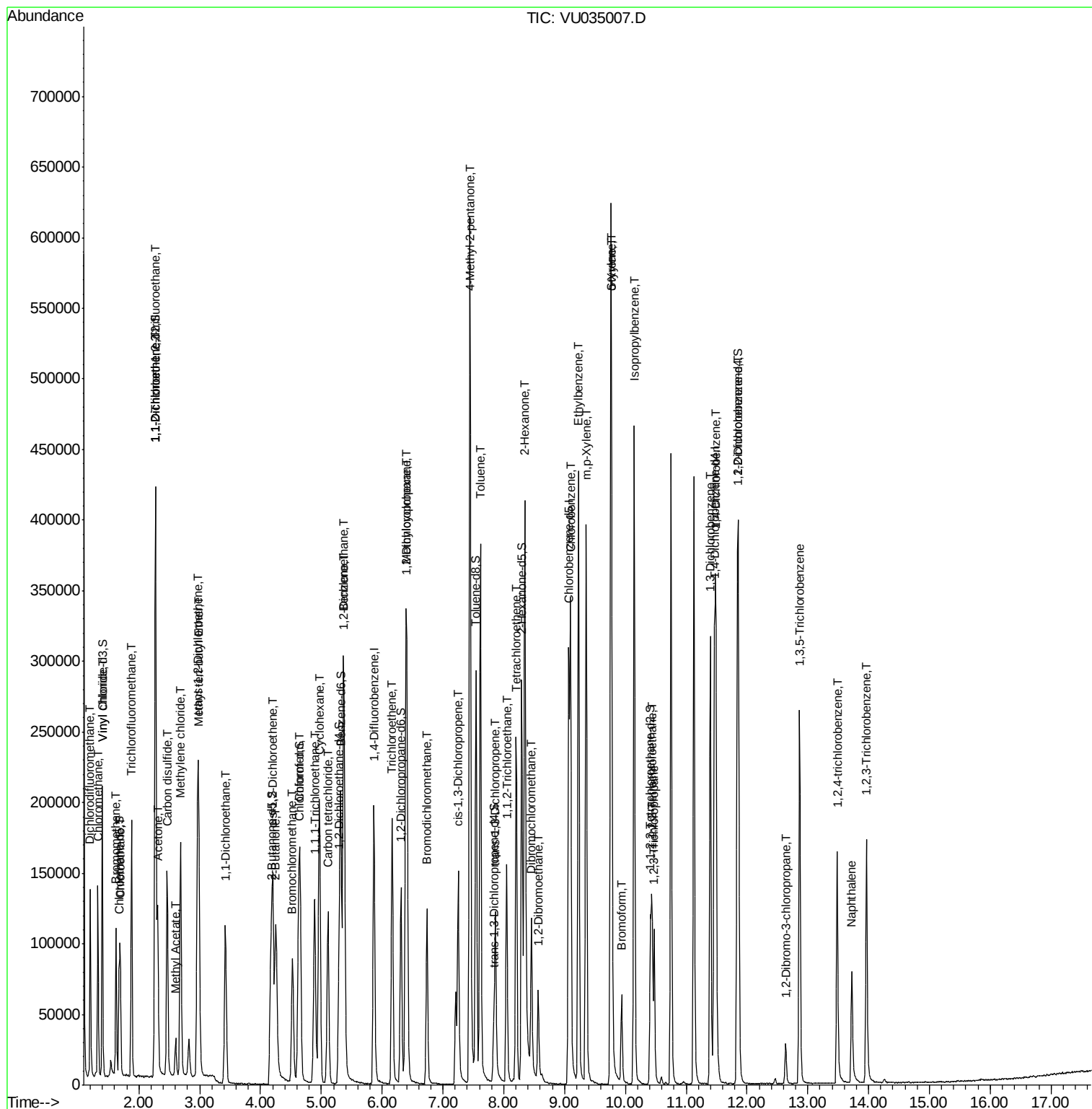
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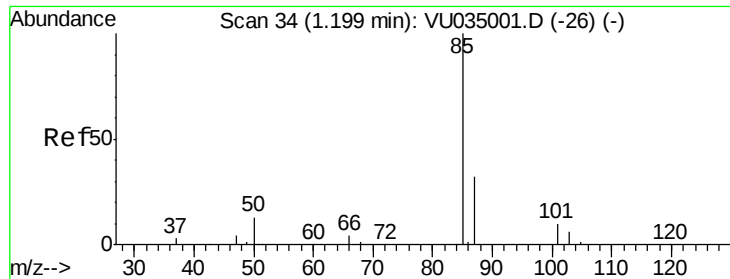
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#2

Dichlorodifluoromethane

Concen: 5.246 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

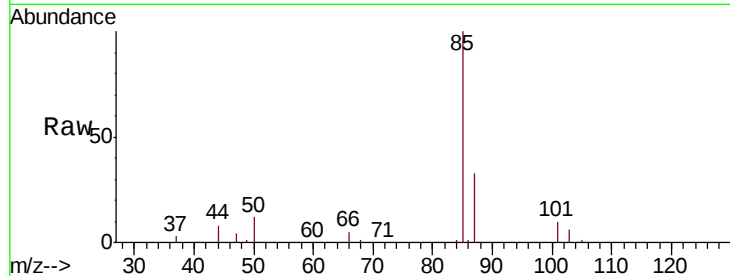
VSTD00510

Tgt Ion: 85 Resp: 78408

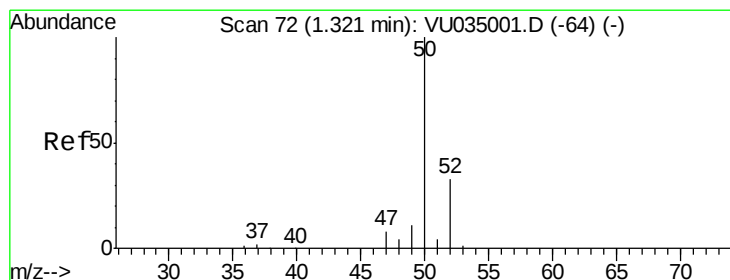
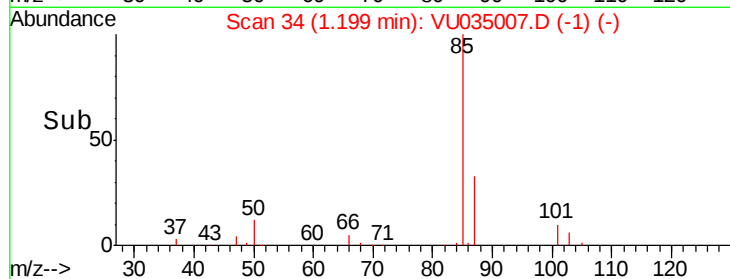
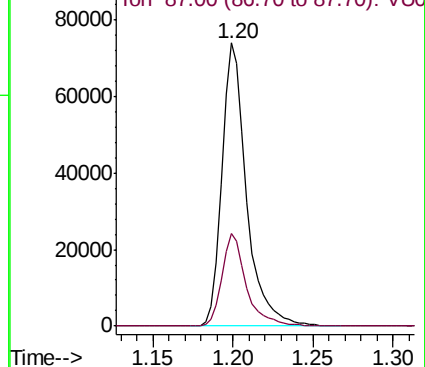
Ion Ratio Lower Upper

85 100

87 32.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU035007.D (-1) (-)



#3

Chloromethane

Concen: 5.363 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU035007.D

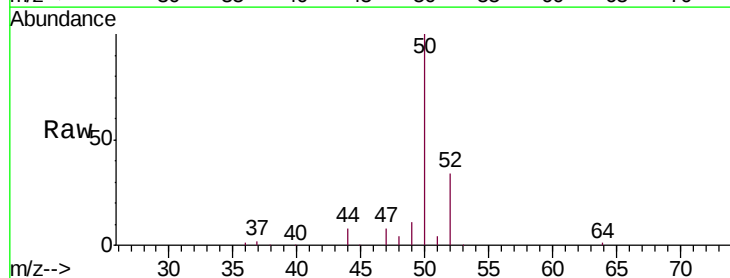
Acq: 09 Oct 2019 14:53

Tgt Ion: 50 Resp: 87937

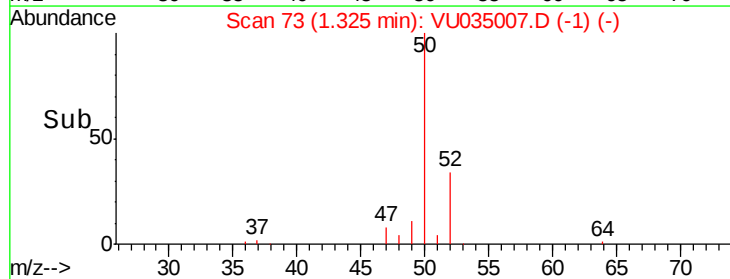
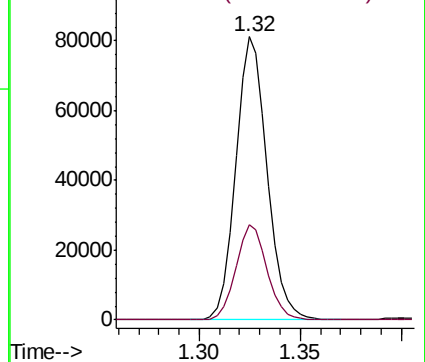
Ion Ratio Lower Upper

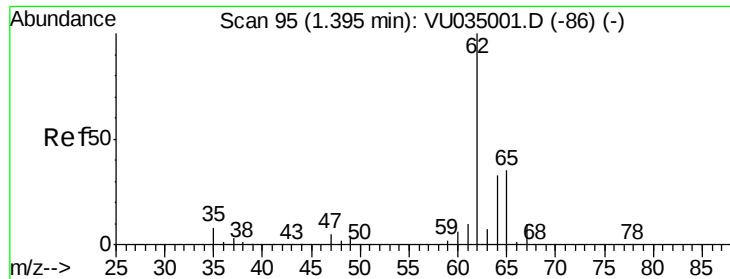
50 100

52 33.5 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU035007.D (-1) (-)





#5

Vinyl chloride

Concen: 5.273 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

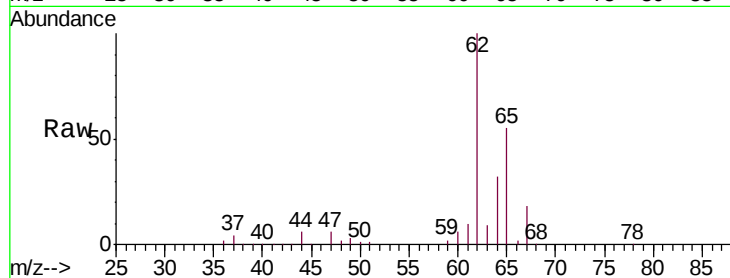
VSTD00510

Tgt Ion: 62 Resp: 84928

Ion Ratio Lower Upper

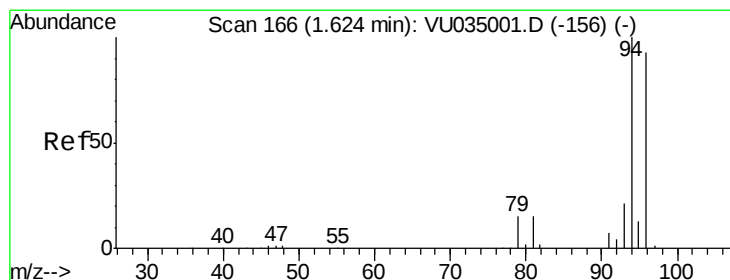
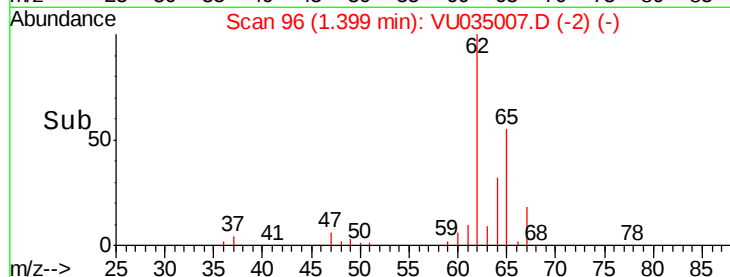
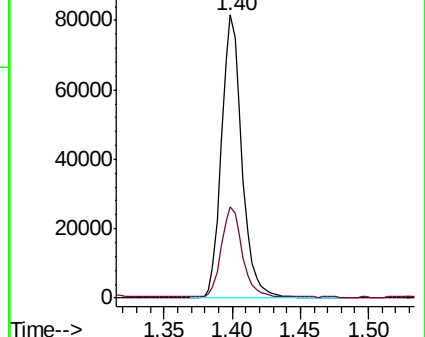
62 100

64 32.2 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU035007.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU035007.D (-86) (-)



#6

Bromomethane

Concen: 5.190 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035007.D

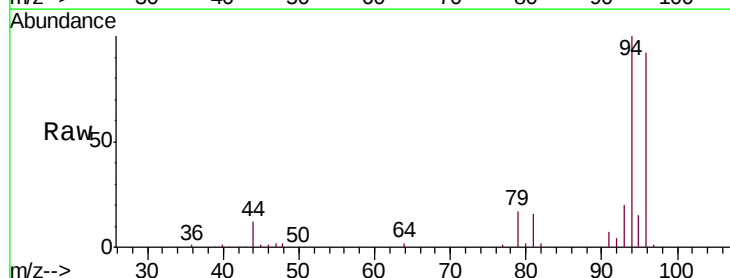
Acq: 09 Oct 2019 14:53

Tgt Ion: 94 Resp: 46467

Ion Ratio Lower Upper

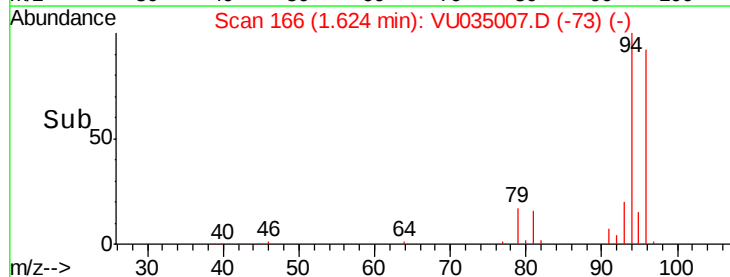
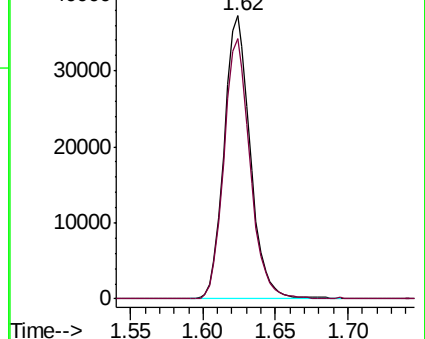
94 100

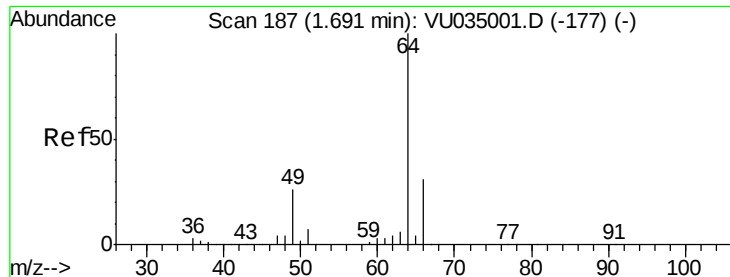
96 92.0 62.4 116.0



Abundance Ion 94.00 (93.70 to 94.70): VU035007.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035007.D (-156) (-)





#8

Chloroethane

Concen: 5.189 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

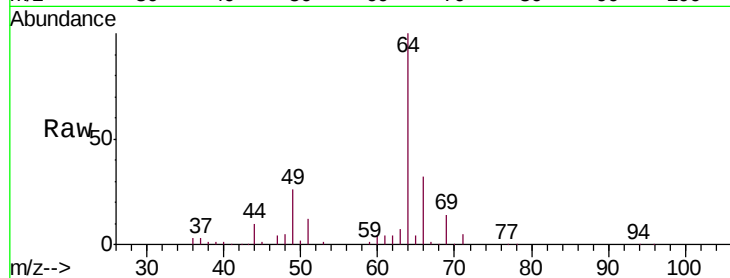
VSTD00510

Tgt Ion: 64 Resp: 50122

Ion Ratio Lower Upper

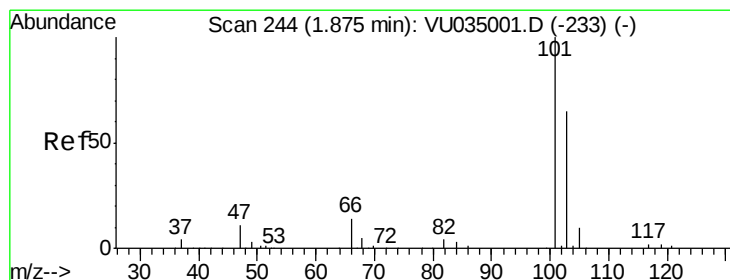
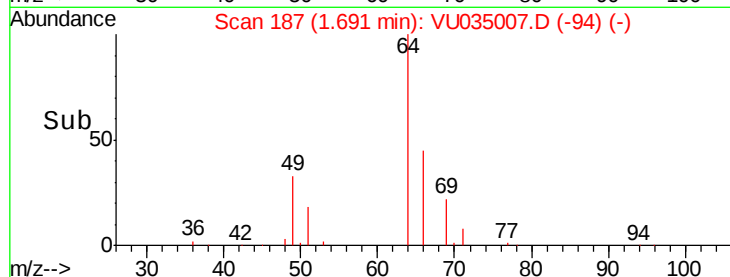
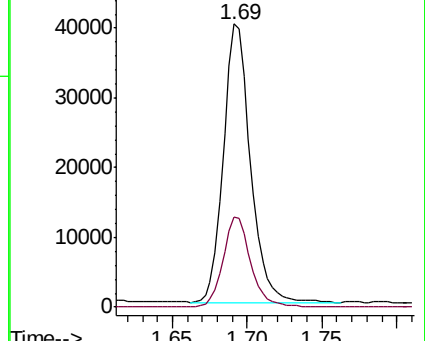
64 100

66 31.7 23.2 43.2



Abundance Ion 64.10 (63.80 to 64.80): VU035007.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU035007.D (-177) (-)



#9

Trichlorofluoromethane

Concen: 5.480 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU035007.D

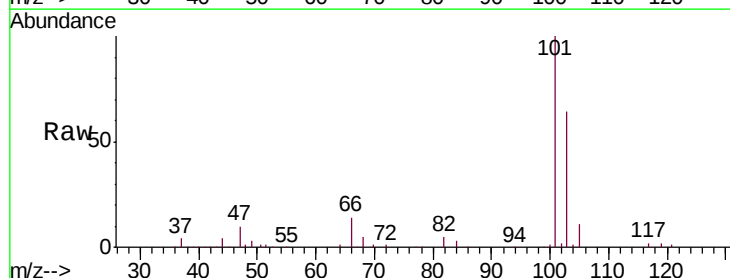
Acq: 09 Oct 2019 14:53

Tgt Ion: 101 Resp: 106731

Ion Ratio Lower Upper

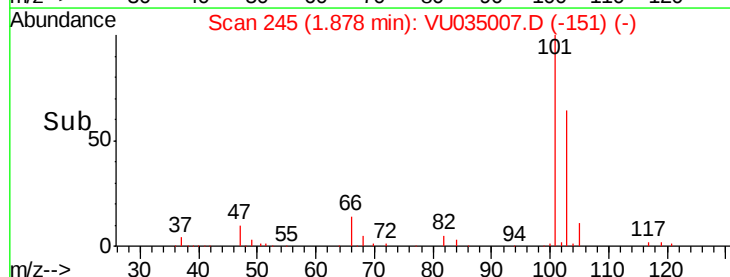
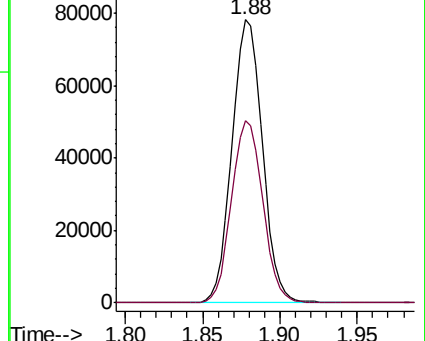
101 100

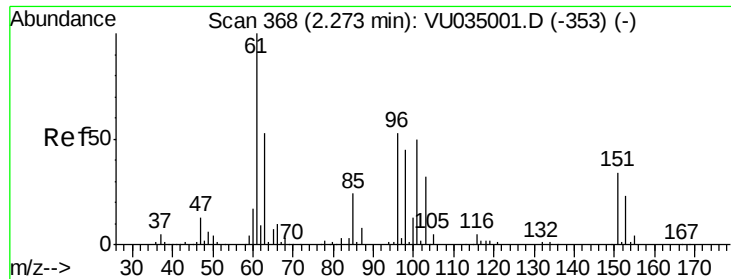
103 66.0 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU035007.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU035007.D (-233) (-)





#10

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

Concen: 5.565 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU035007.D

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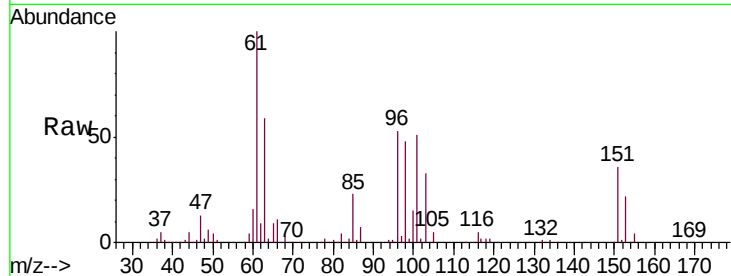
Tgt Ion: 101 Resp: 62233

Ion Ratio Lower Upper

101 100

85 44.1 37.4 56.0

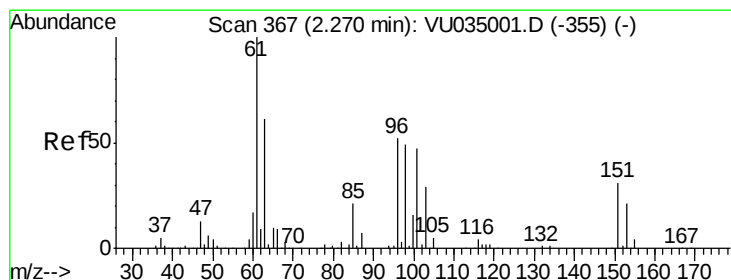
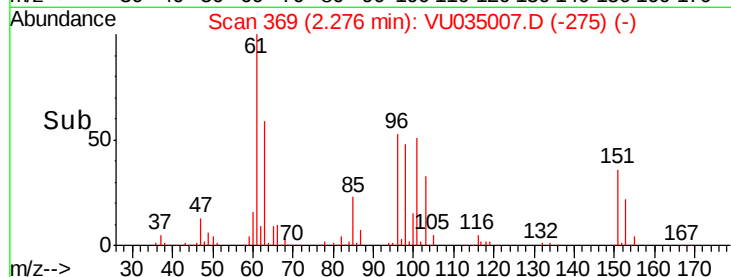
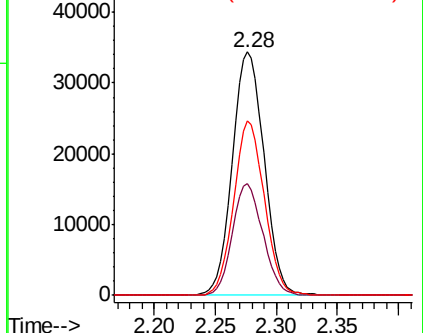
151 68.9 58.6 87.8



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: 5.344 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

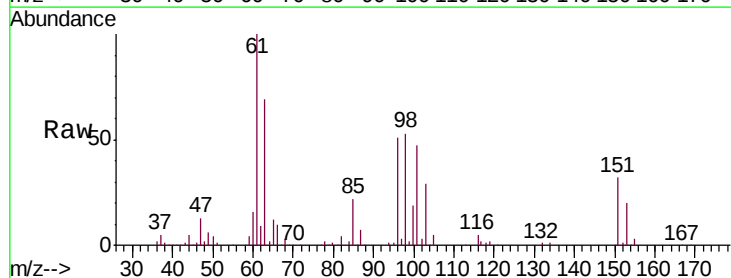
Tgt Ion: 96 Resp: 56143

Ion Ratio Lower Upper

96 100

61 194.3 129.3 240.1

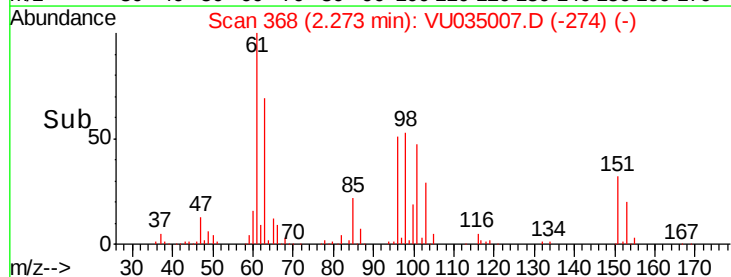
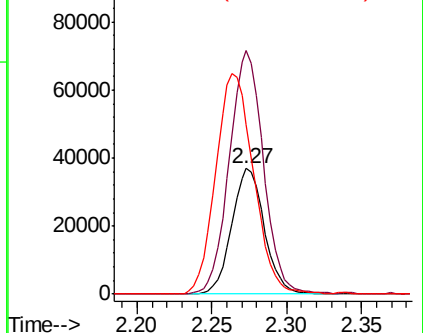
63 135.0 108.9 202.3

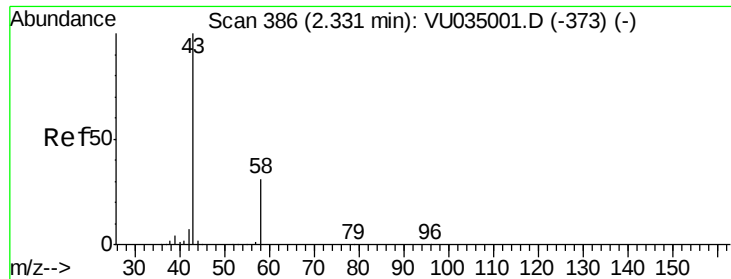


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 53.033 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.02 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

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ClientSampleId :

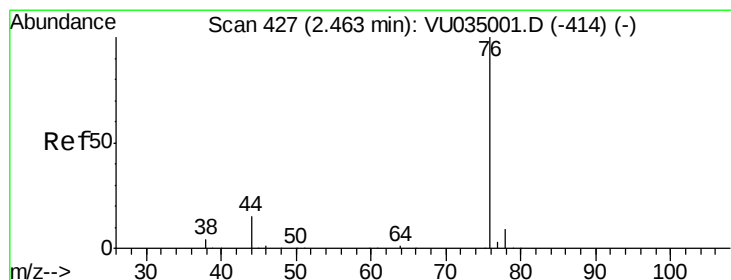
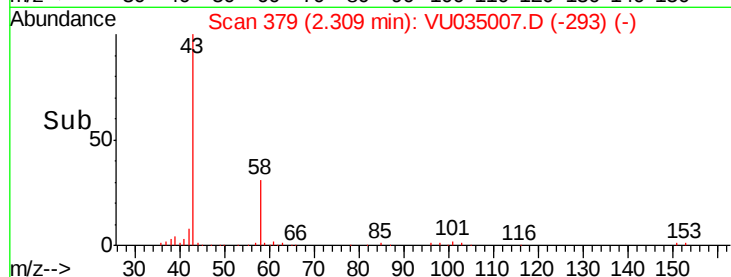
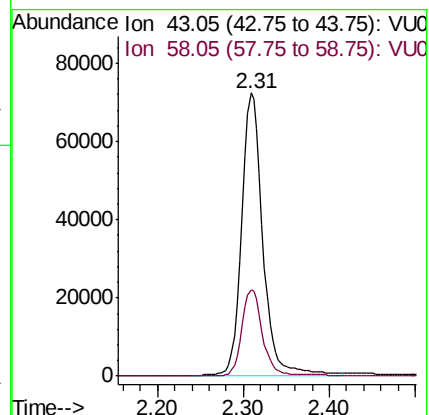
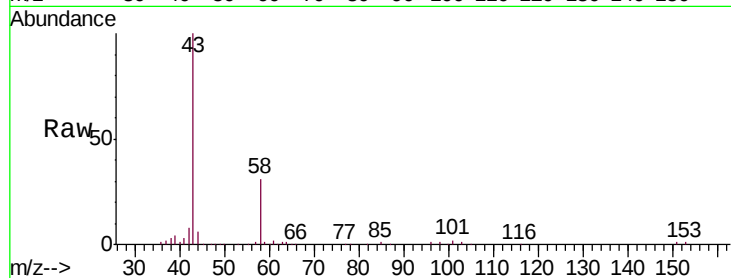
VSTD00510

Tgt Ion: 43 Resp: 123660

Ion Ratio Lower Upper

43 100

58 29.8 0.0 66.6



#14

Carbon disulfide

Concen: 5.086 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU035007.D

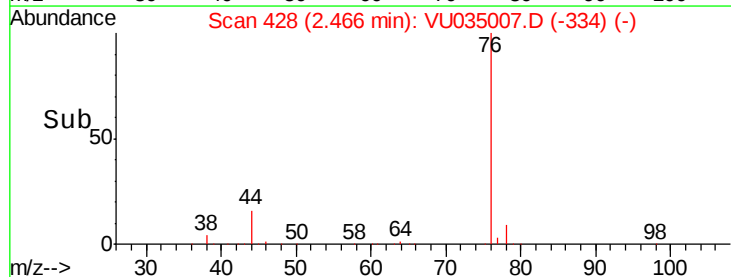
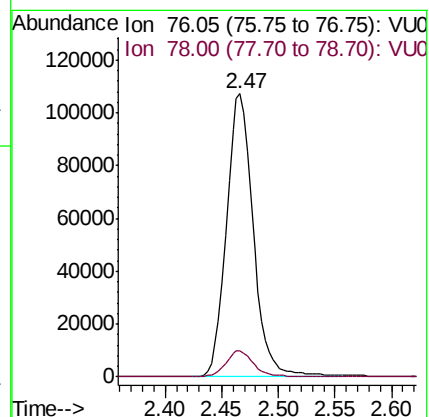
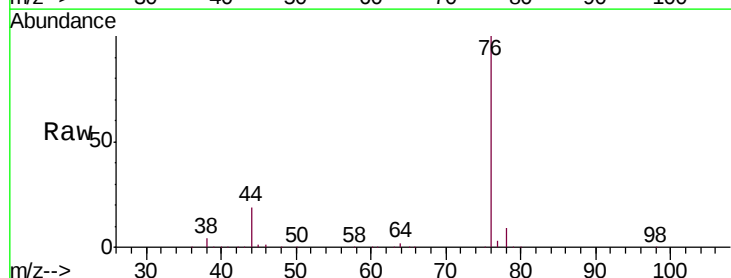
Acq: 09 Oct 2019 14:53

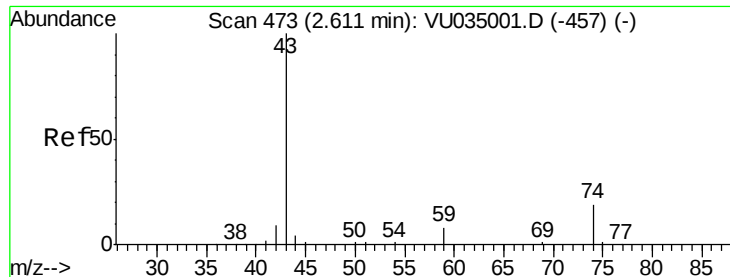
Tgt Ion: 76 Resp: 177814

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





#15

Methyl Acetate

Concen: 5.117 ug/L

RT: 2.60 min Scan# 471

Delta R.T. -0.01 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

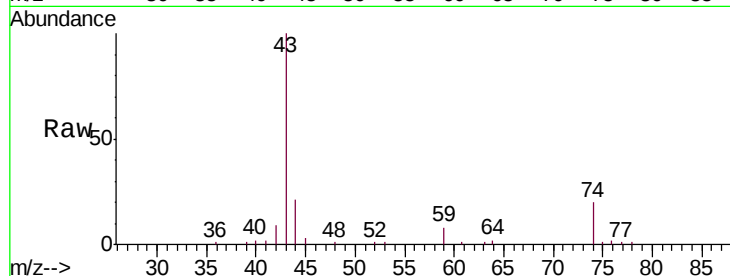
VSTD00510

Tgt Ion: 43 Resp: 31760

Ion Ratio Lower Upper

43 100

74 20.4 17.8 26.8



Abundance Ion 43.05 (42.75 to 43.75): VU035007.D (-380) (-)

Ion 74.05 (73.75 to 74.75): VU035007.D (-380) (-)

2.60

20000

15000

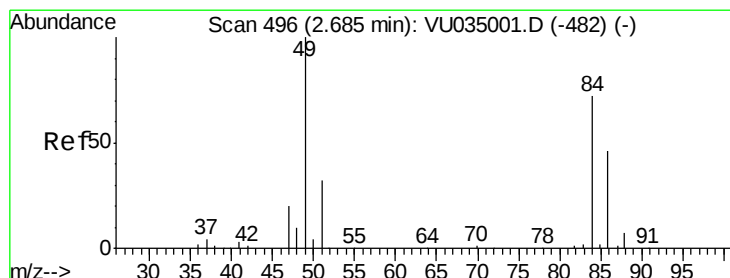
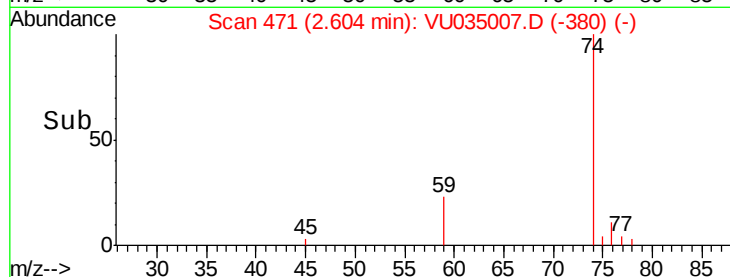
10000

5000

0

Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 5.267 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

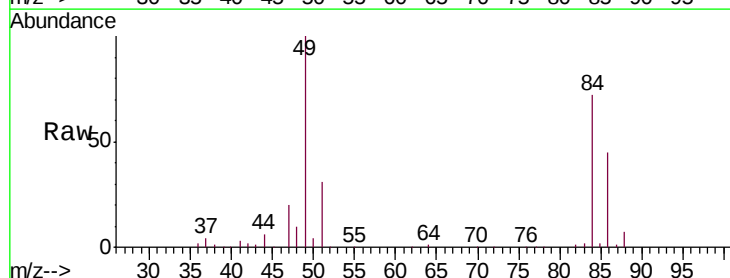
Tgt Ion: 84 Resp: 68503

Ion Ratio Lower Upper

84 100

86 62.2 42.5 78.9

49 138.3 86.9 161.3



Abundance Ion 84.05 (83.75 to 84.75): VU035007.D (-403) (-)

Ion 86.00 (85.70 to 86.70): VU035007.D (-403) (-)

Ion 49.10 (48.80 to 49.80): VU035007.D (-403) (-)

2.68

60000

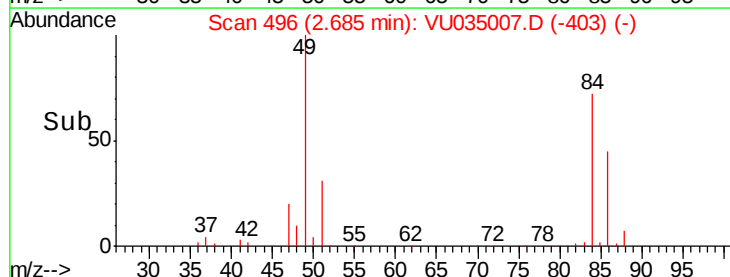
40000

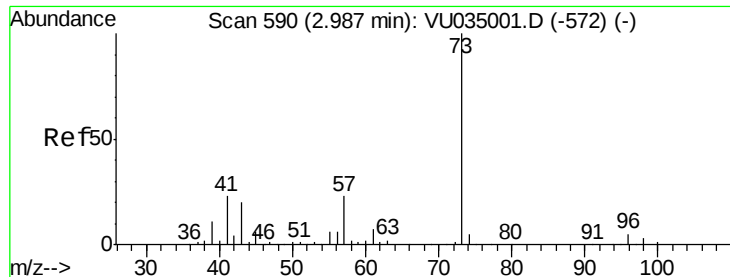
20000

0

Time-->

2.60 2.65 2.70 2.75 2.80

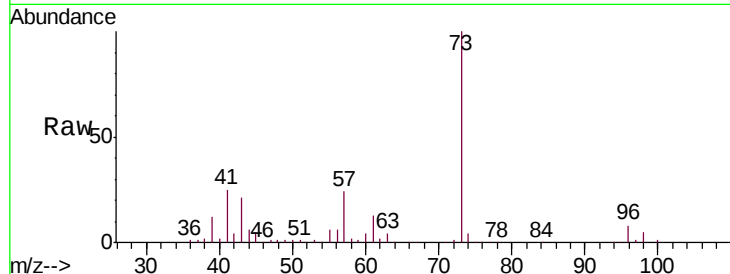




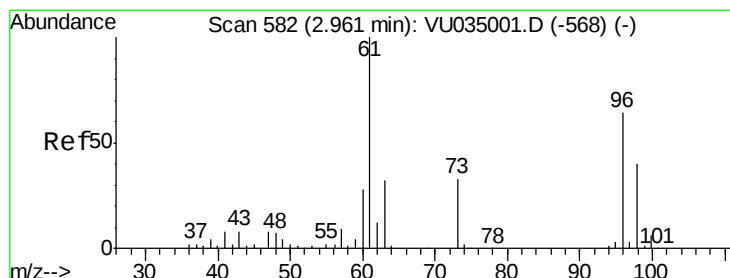
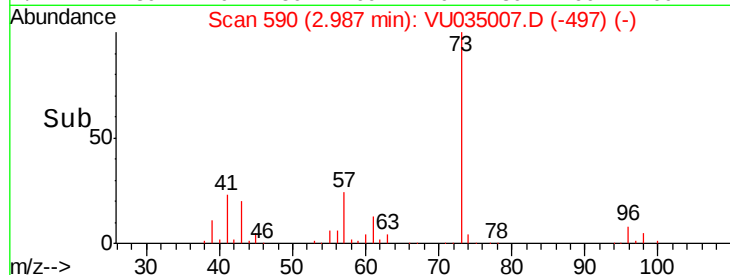
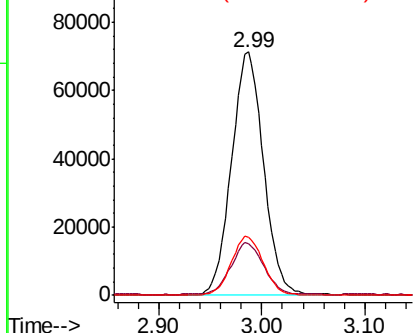
#17
Methyl tert-butyl Ether
Concen: 5.394 ug/L
RT: 2.99 min Scan# 590
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Tgt Ion: 73 Resp: 154584
Ion Ratio Lower Upper
73 100
43 21.3 16.3 24.5
57 24.3 18.6 28.0

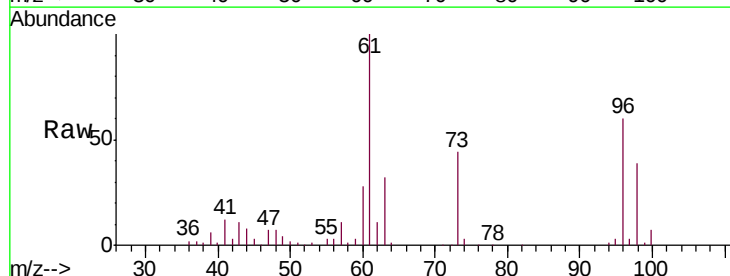


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

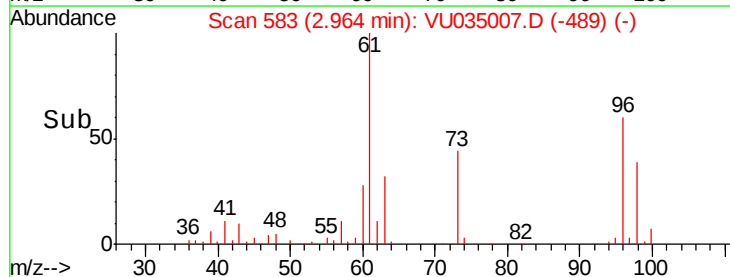
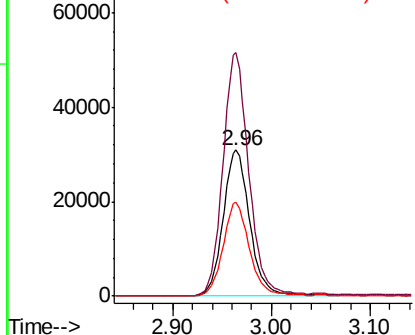


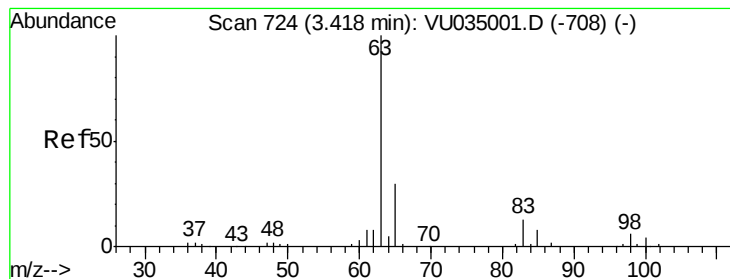
#18
trans-1,2-Dichloroethene
Concen: 5.256 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Tgt Ion: 96 Resp: 59117
Ion Ratio Lower Upper
96 100
61 166.8 107.1 198.9
98 64.5 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: 5.437 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

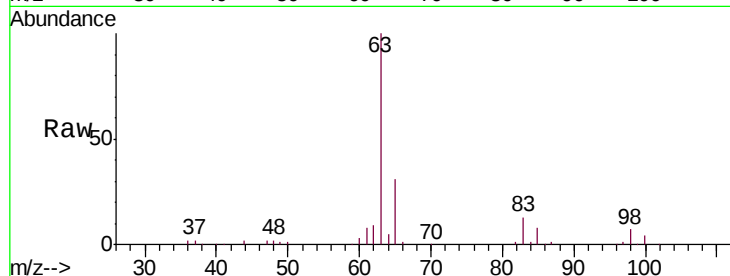
Tgt Ion: 63 Resp: 121551

Ion Ratio Lower Upper

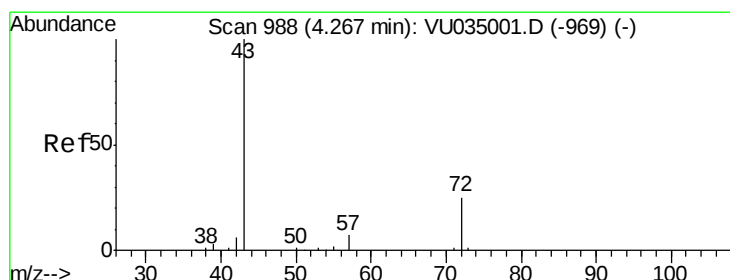
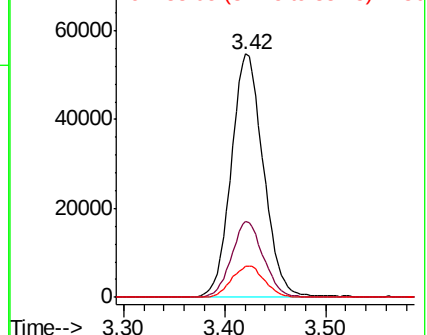
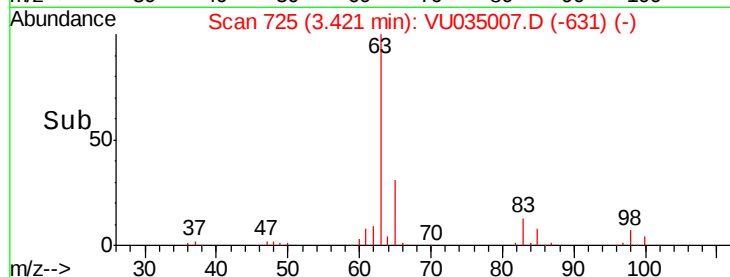
63 100

65 31.2 21.7 40.3

83 12.6 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VU035007.D (-631) (-)



#21

2-Butanone

Concen: 51.688 ug/L

RT: 4.25 min Scan# 983

Delta R.T. -0.02 min

Lab File: VU035007.D

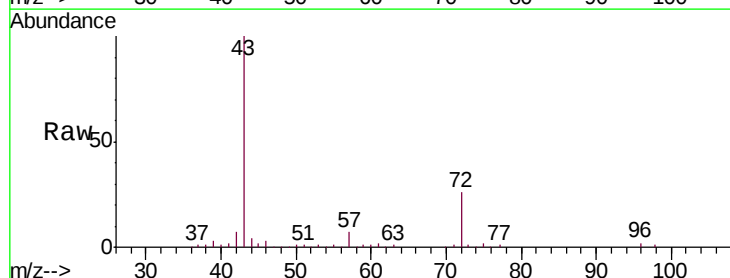
Acq: 09 Oct 2019 14:53

Tgt Ion: 43 Resp: 171636

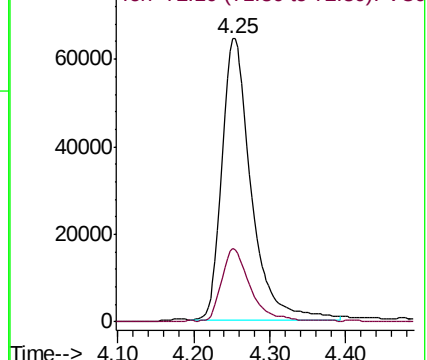
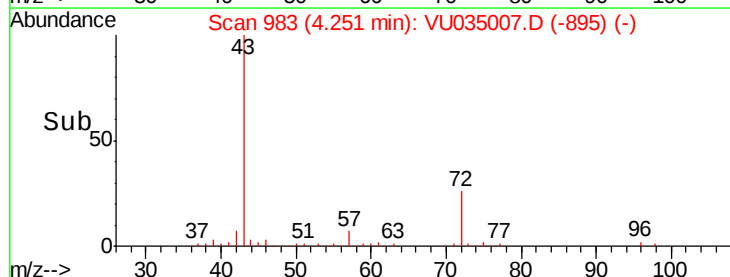
Ion Ratio Lower Upper

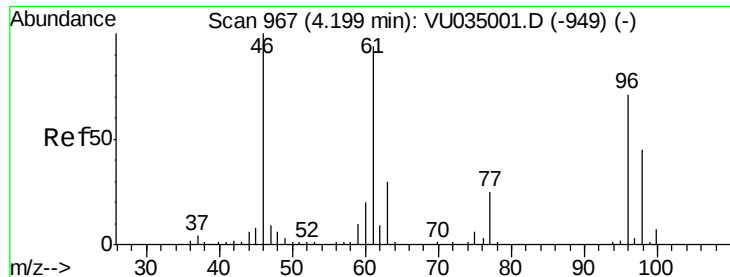
43 100

72 24.8 13.5 40.4



Abundance Ion 43.05 (42.75 to 43.75): VU035007.D (-895) (-)



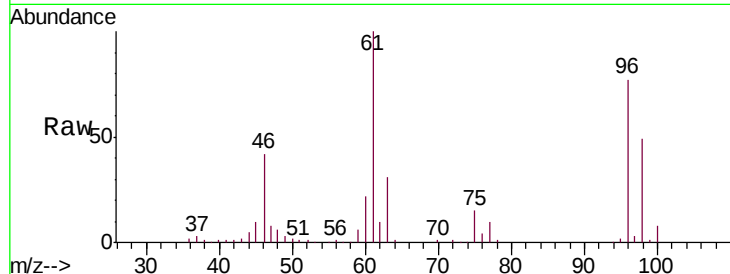


#22

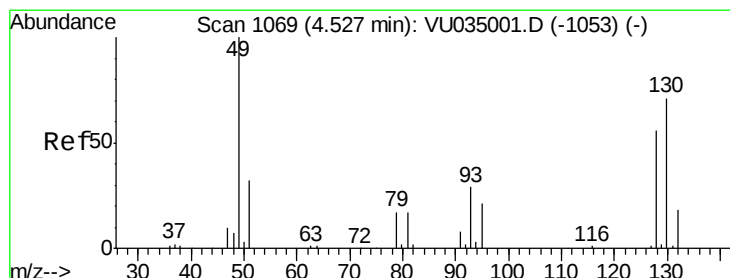
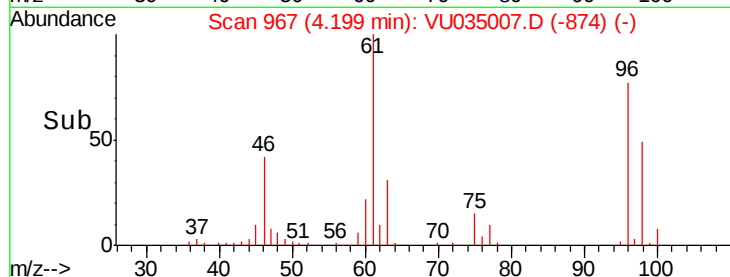
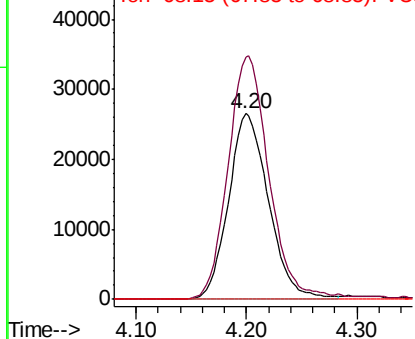
cis-1,2-Dichloroethene
Concen: 5.320 ug/L
RT: 4.20 min Scan# 967
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Tgt Ion: 96 Resp: 66749
Ion Ratio Lower Upper
96 100
61 130.6 89.2 165.6
68 0.0 0.0 0.0



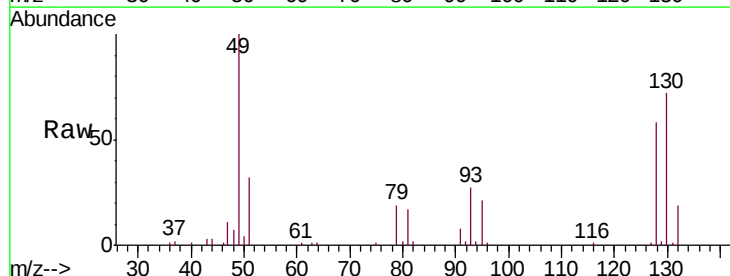
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



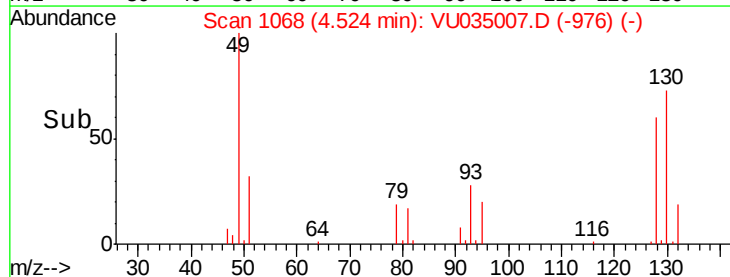
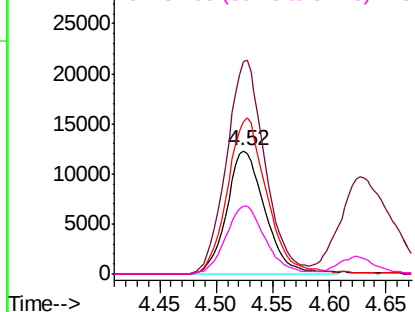
#23

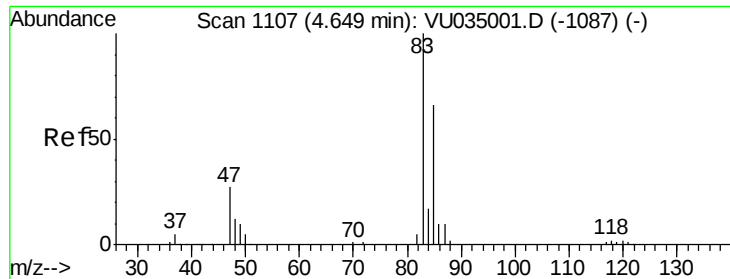
Bromochloromethane
Concen: 5.506 ug/L
RT: 4.52 min Scan# 1068
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Tgt Ion: 128 Resp: 28954
Ion Ratio Lower Upper
128 100
49 171.6 110.5 205.3
130 123.3 88.6 164.6
51 55.4 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

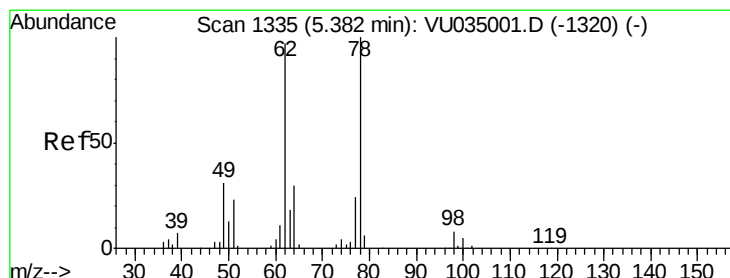
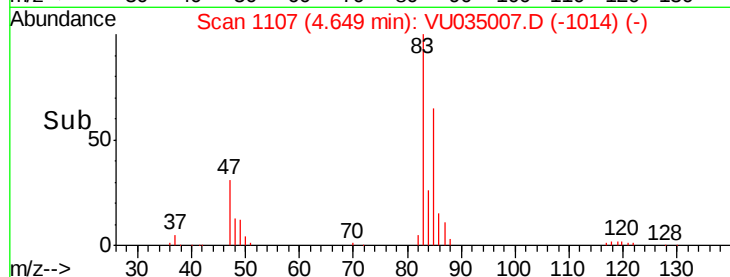
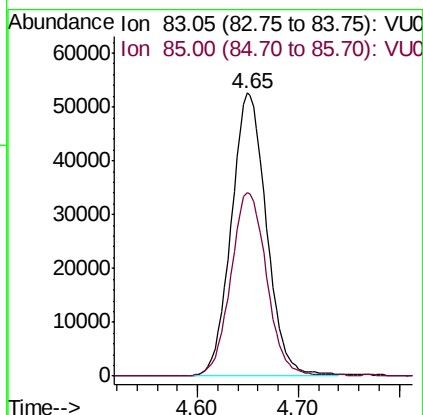
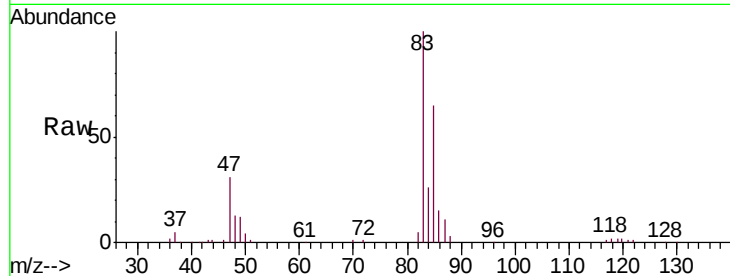




#25
Chloroform
Concen: 5.057 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

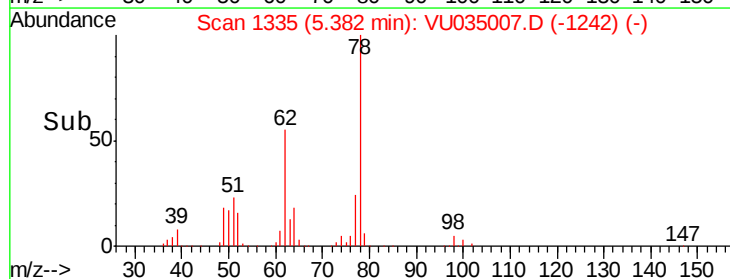
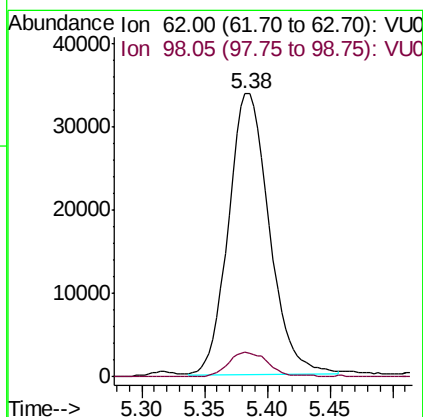
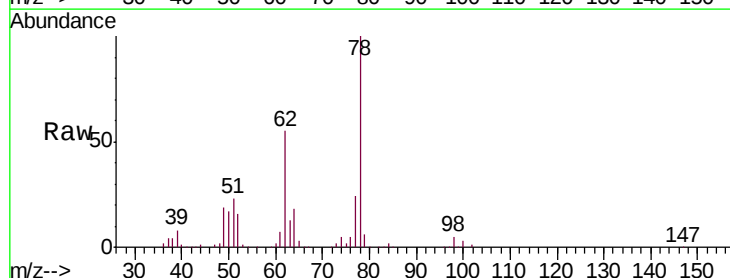
Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

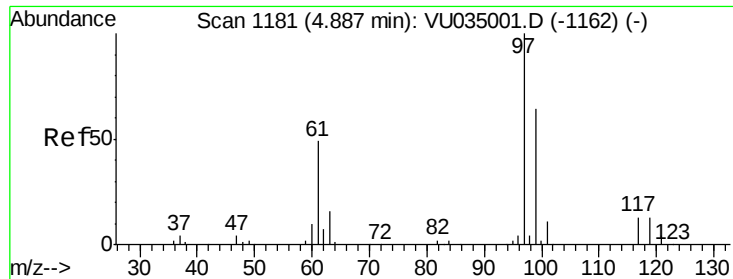
Tgt Ion: 83 Resp: 127042
Ion Ratio Lower Upper
83 100
85 64.9 45.4 84.4



#27
1,2-Dichloroethane
Concen: 5.200 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Tgt Ion: 62 Resp: 76285
Ion Ratio Lower Upper
62 100
98 8.6 6.6 10.0

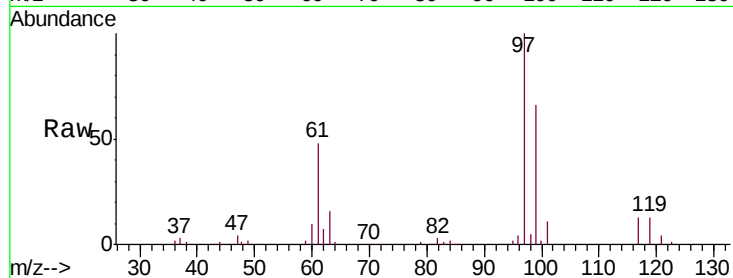




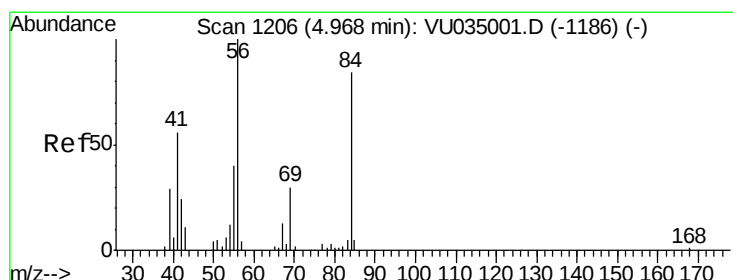
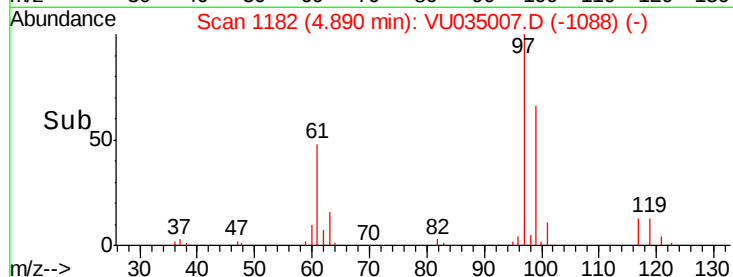
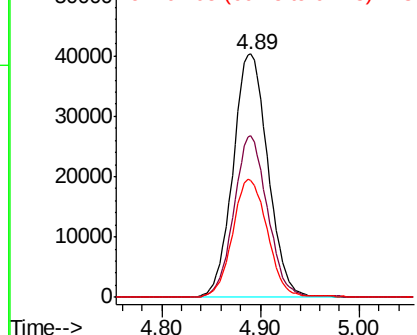
#29
 1,1,1-Trichloroethane
 Concen: 5.448 ug/L
 RT: 4.89 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tgt Ion: 97 Resp: 99051
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.6 77.4
 61 48.2 36.2 54.4

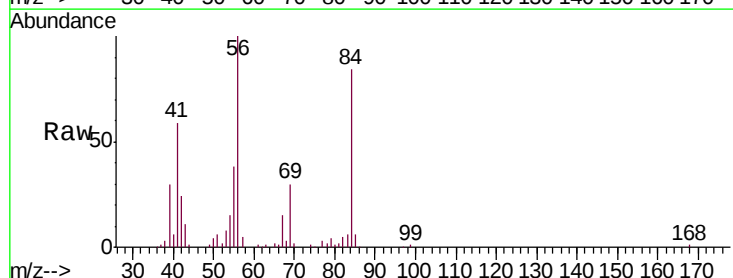


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

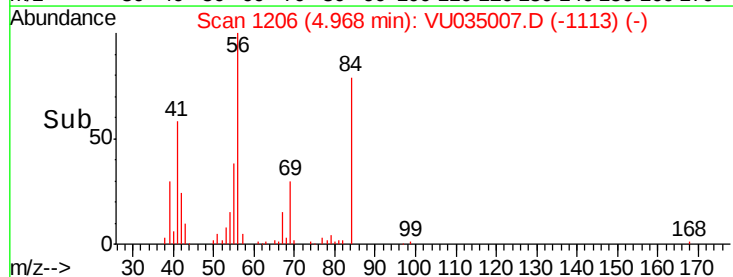
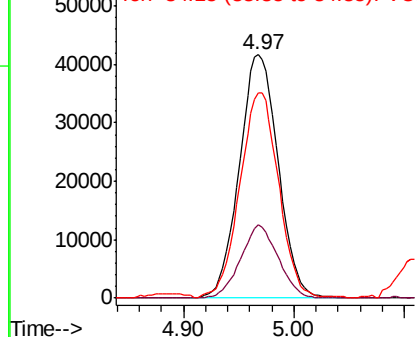


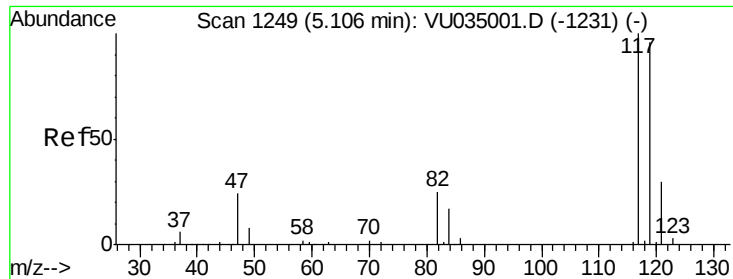
#30
 Cyclohexane
 Concen: 5.076 ug/L
 RT: 4.97 min Scan# 1206
 Delta R.T. -0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

Tgt Ion: 56 Resp: 101461
 Ion Ratio Lower Upper
 56 100
 69 28.8 23.9 35.9
 84 84.2 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: 5.444 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

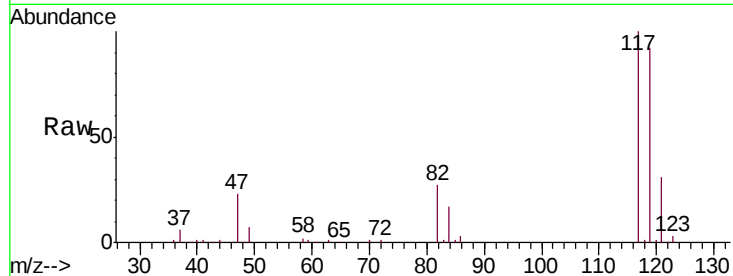
VSTD00510

Tgt Ion:117 Resp: 85825

Ion Ratio Lower Upper

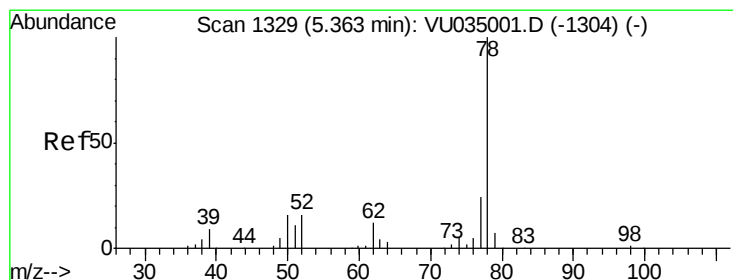
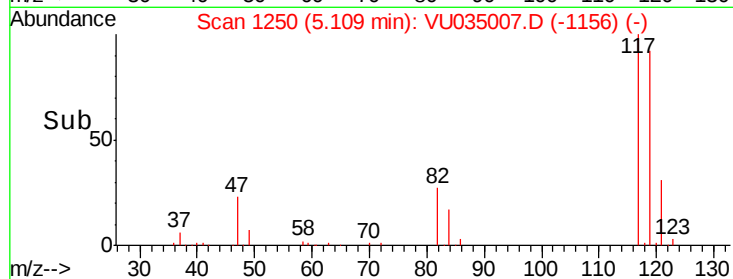
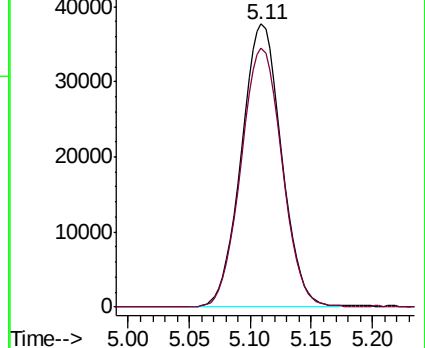
117 100

119 93.8 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.389 ug/L

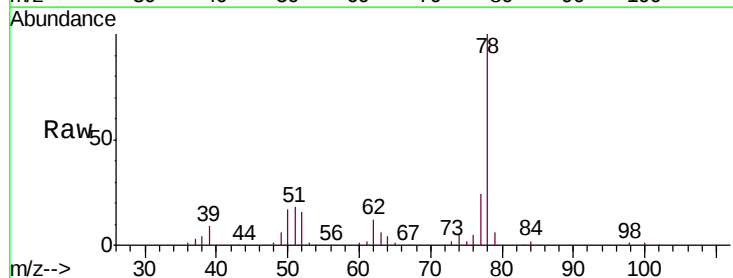
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

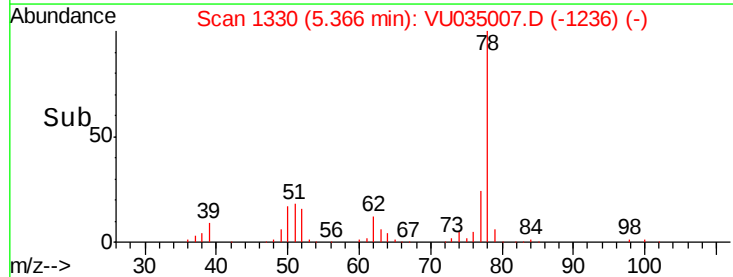
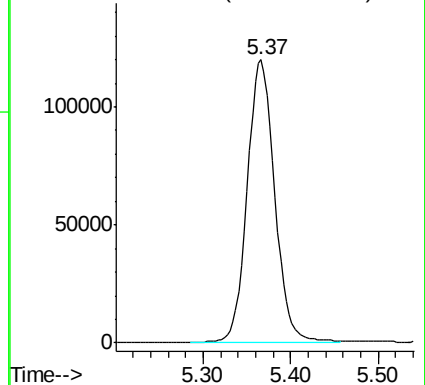
Lab File: VU035007.D

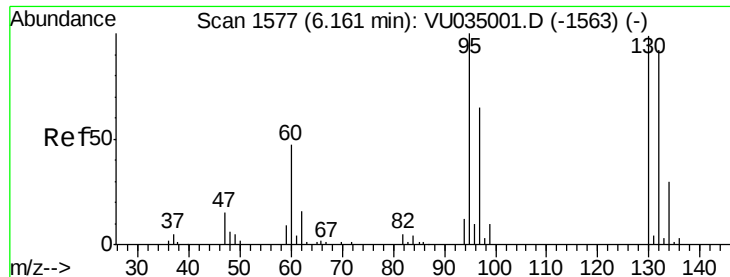
Acq: 09 Oct 2019 14:53

Tgt Ion: 78 Resp: 262750



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.305 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleID :

VSTD00510

Tgt Ion: 95 Resp: 66715

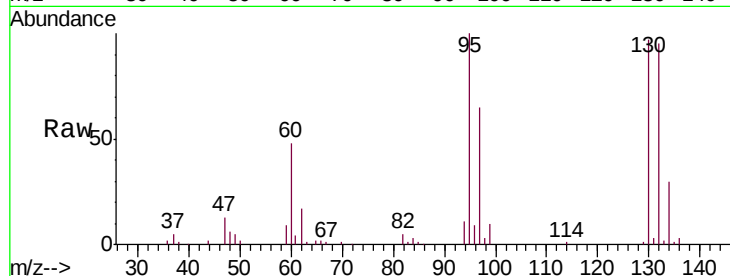
Ion Ratio Lower Upper

95 100

97 65.0 44.5 82.7

132 95.5 66.6 123.8

130 97.1 68.9 127.9



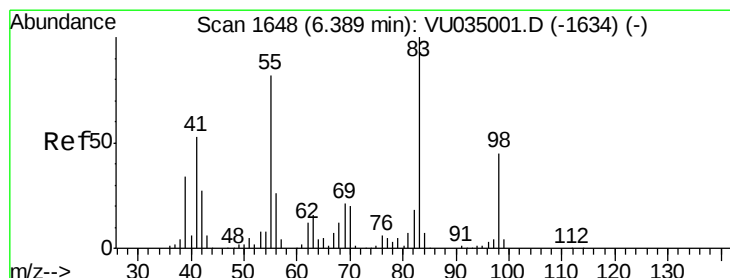
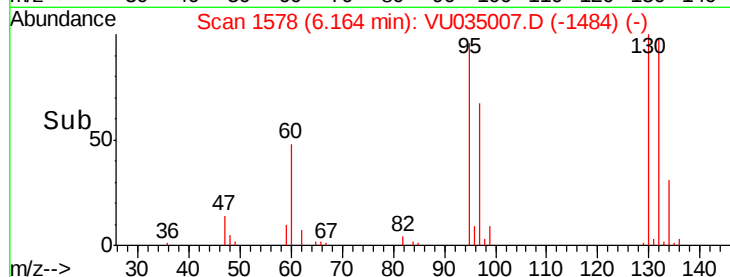
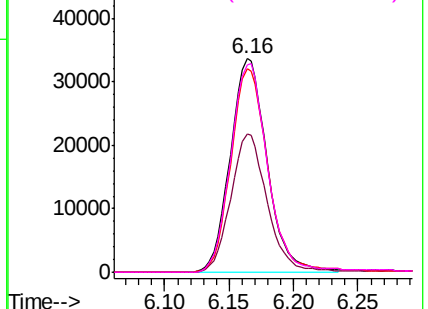
Abundance

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: 5.205 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

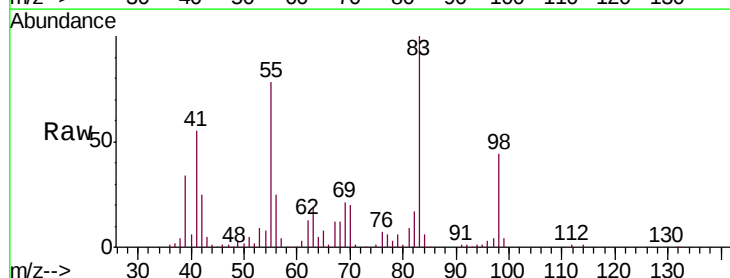
Tgt Ion: 83 Resp: 106003

Ion Ratio Lower Upper

83 100

55 80.0 62.6 94.0

98 44.5 36.2 54.2

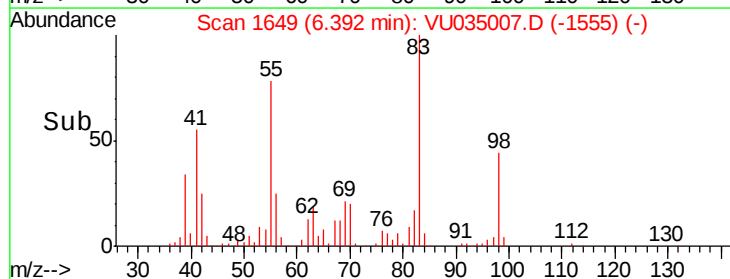
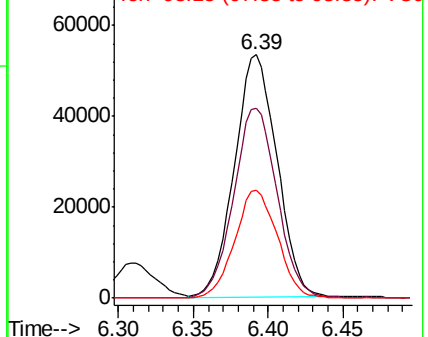


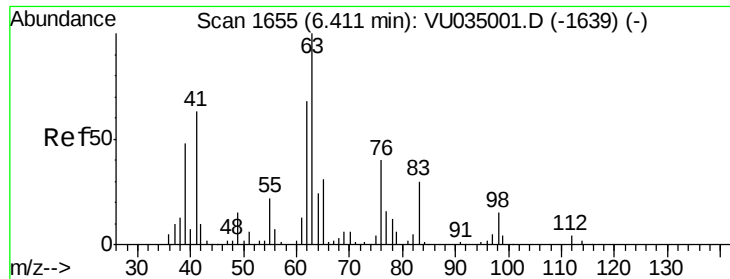
Abundance

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

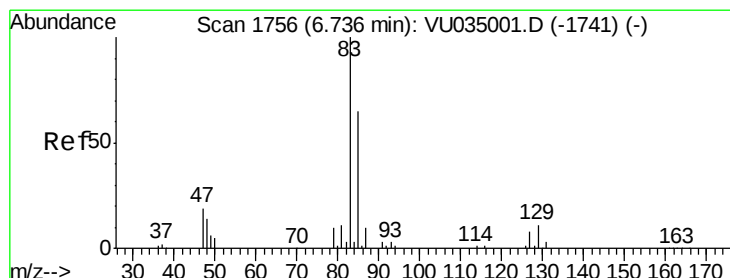
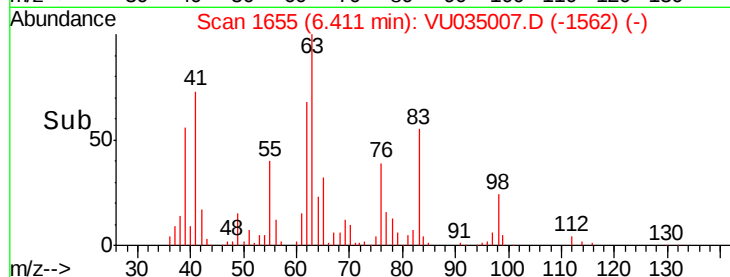
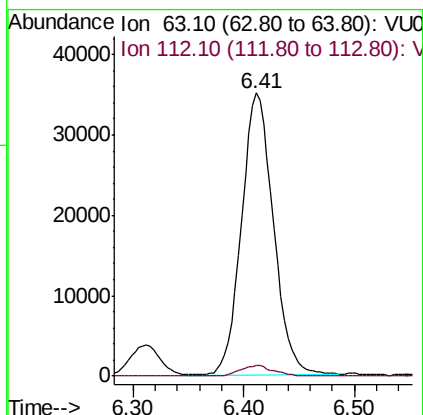
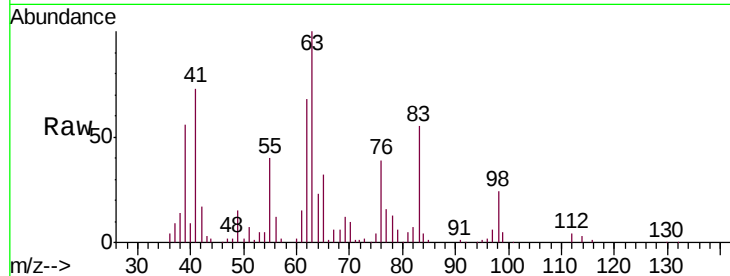




#37
 1,2-Dichloropropane
 Concen: 5.351 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

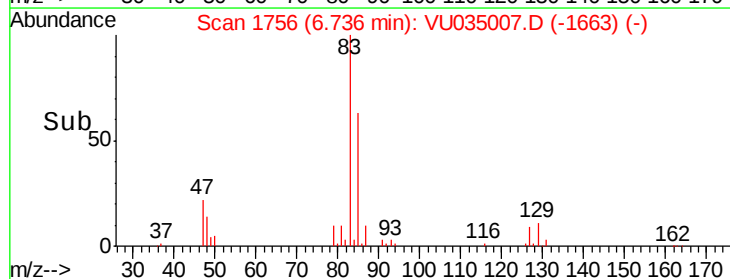
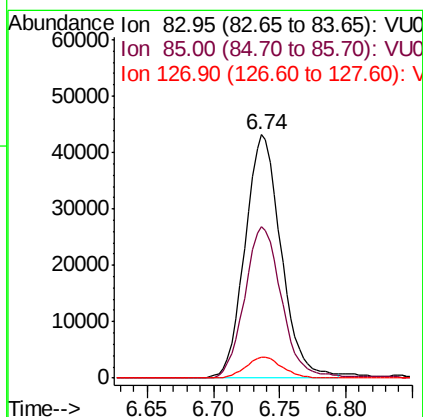
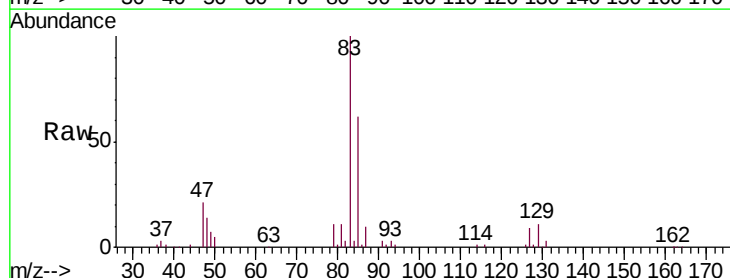
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

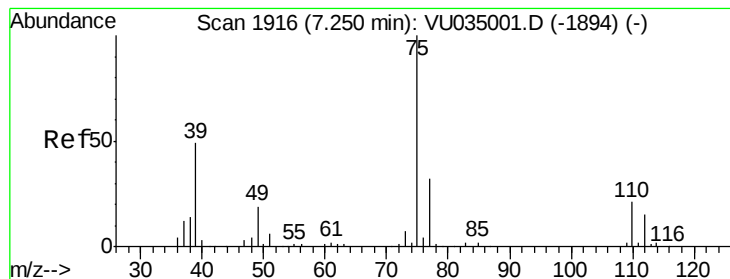
Tgt Ion: 63 Resp: 70380
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.1 4.7



#38
 Bromodichloromethane
 Concen: 5.301 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

Tgt Ion: 83 Resp: 81733
 Ion Ratio Lower Upper
 83 100
 85 62.2 44.0 81.8
 127 8.5 7.0 10.4



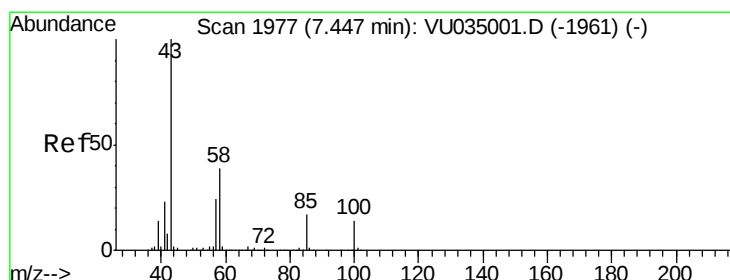
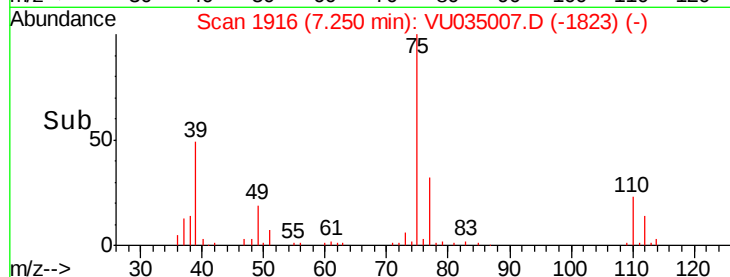
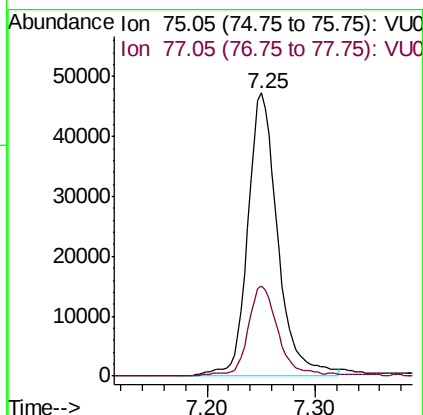
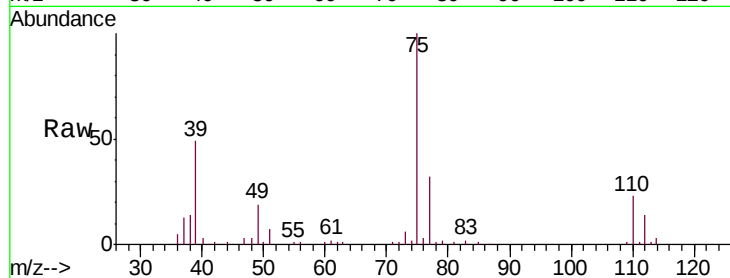


#39

cis-1,3-Dichloropropene
Concen: 5.120 ug/L
RT: 7.25 min Scan# 1916
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Instrument :
MSVOA_U
ClientSampled :
VSTD00510

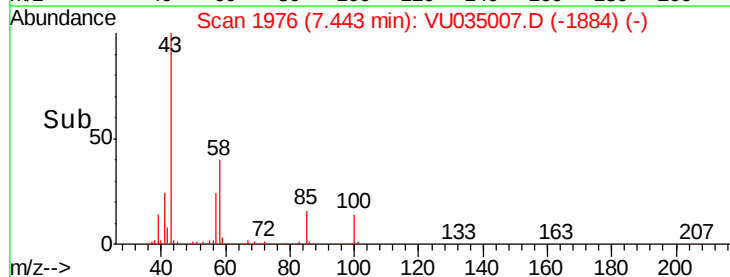
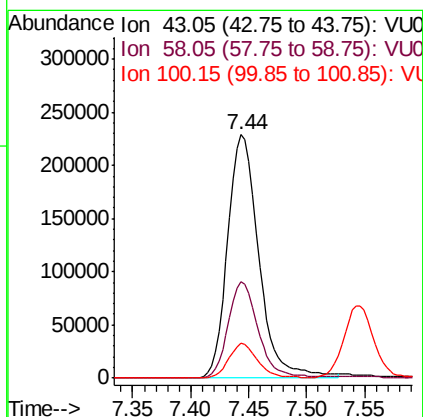
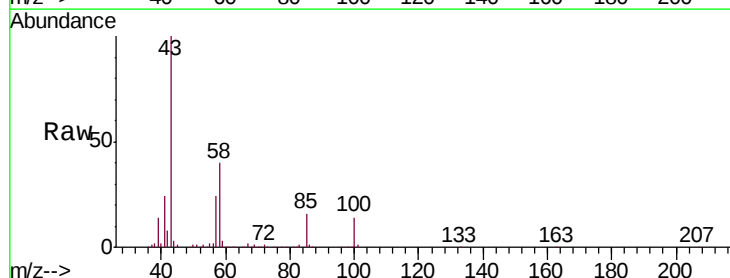
Tgt Ion: 75 Resp: 91230
Ion Ratio Lower Upper
75 100
77 31.8 22.1 41.1

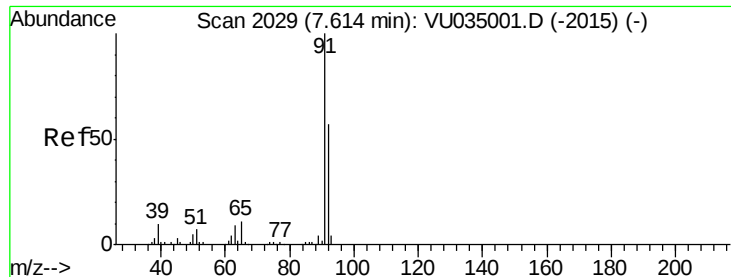


#40

4-Methyl-2-pentanone
Concen: 51.744 ug/L
RT: 7.44 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Tgt Ion: 43 Resp: 428347
Ion Ratio Lower Upper
43 100
58 38.4 32.4 48.6
100 13.3 11.9 17.9





#42

Toluene

Concen: 5.489 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

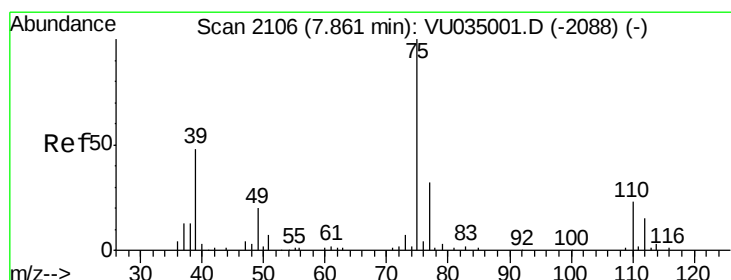
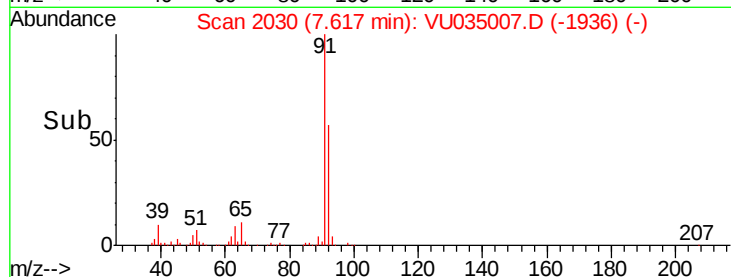
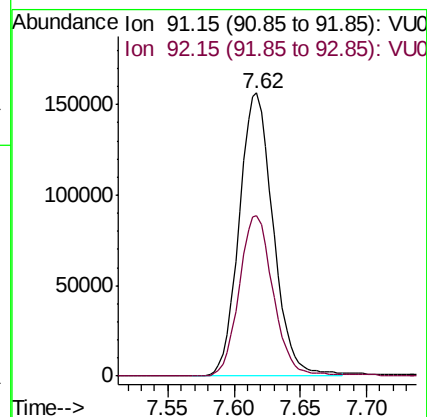
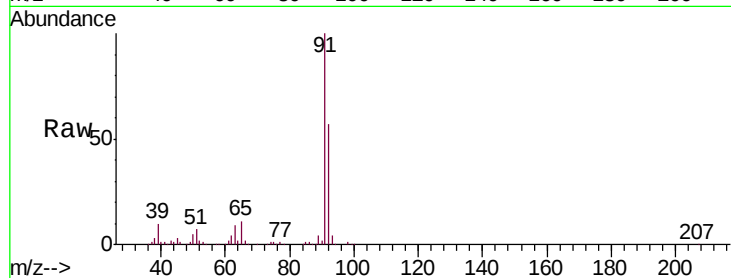
VSTD00510

Tgt Ion: 91 Resp: 279355

Ion Ratio Lower Upper

91 100

92 56.9 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 5.106 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU035007.D

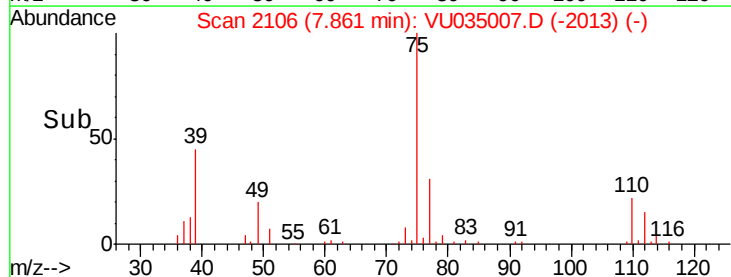
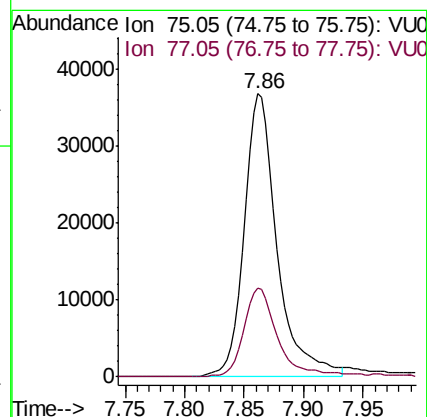
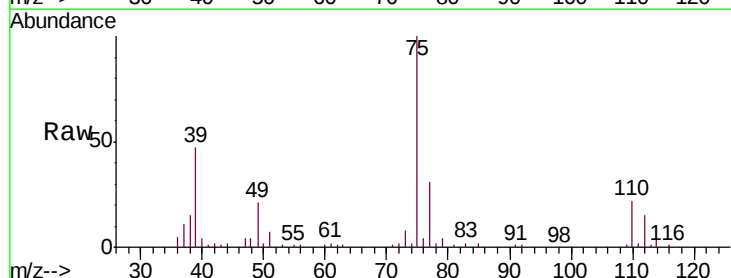
Acq: 09 Oct 2019 14:53

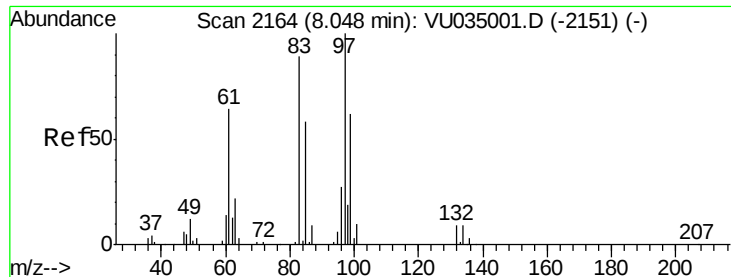
Tgt Ion: 75 Resp: 70475

Ion Ratio Lower Upper

75 100

77 31.4 21.6 40.0

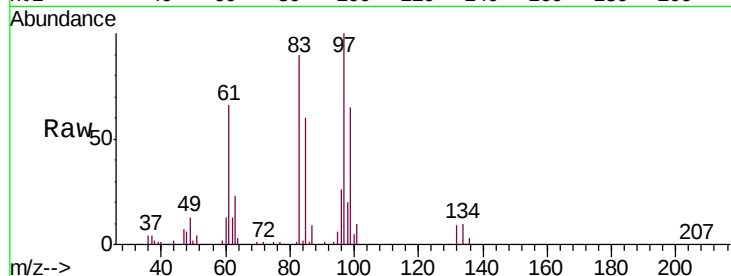




#45
 1,1,2-Trichloroethane
 Concen: 5.539 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tgt Ion:	97	Resp:	48369
Ion	Ratio	Lower	Upper
97	100		
99	64.8	42.3	78.5
83	90.2	58.0	107.6
85	59.6	37.8	70.2



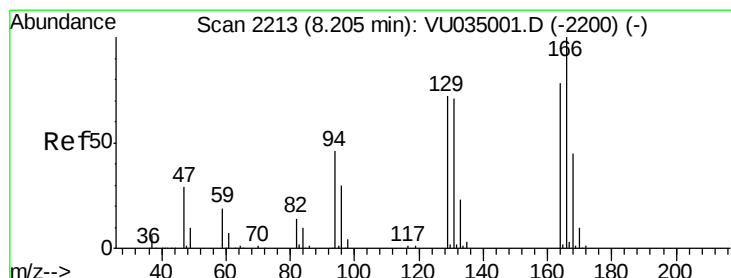
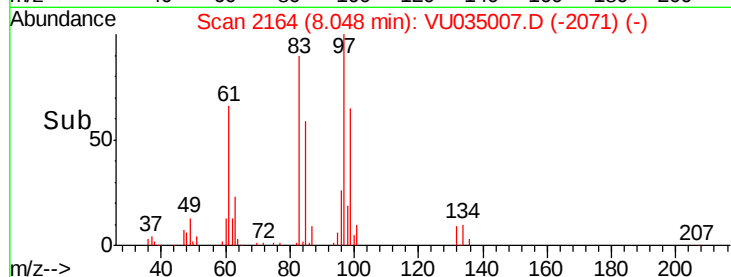
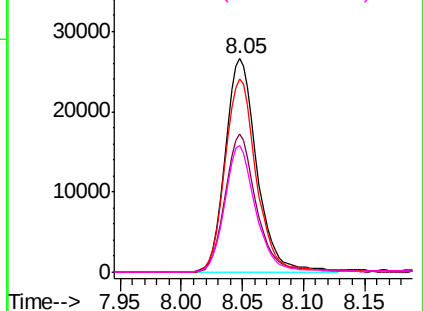
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

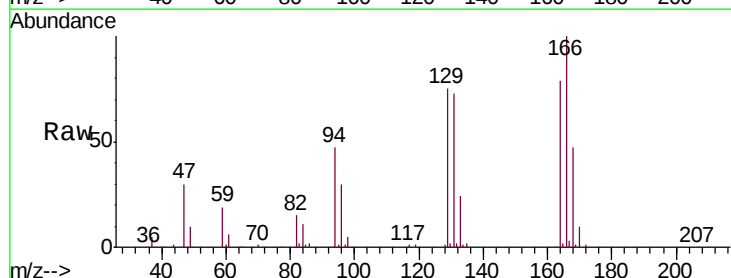
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 5.368 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

Tgt Ion:	164	Resp:	54645
Ion	Ratio	Lower	Upper
164	100		
129	94.6	68.5	127.1
131	92.3	67.3	124.9
166	125.9	93.1	172.9



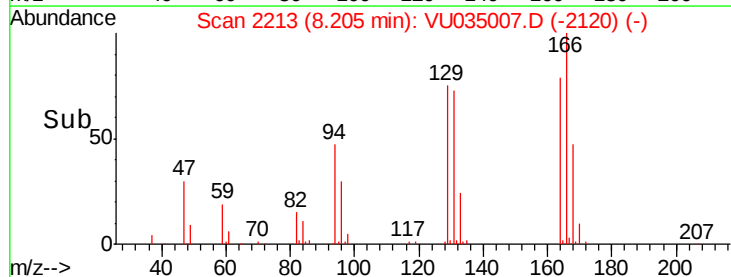
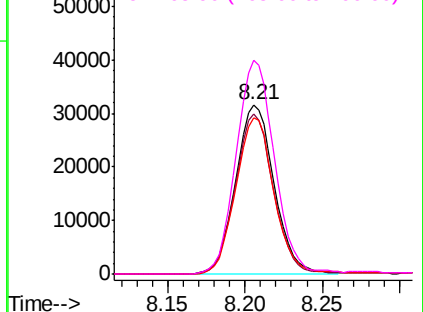
Abundance

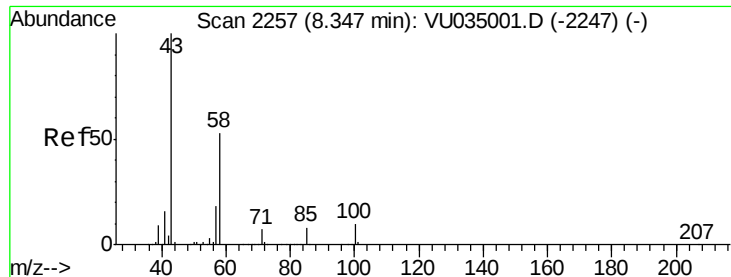
Ion 163.90 (163.60 to 164.60): V

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

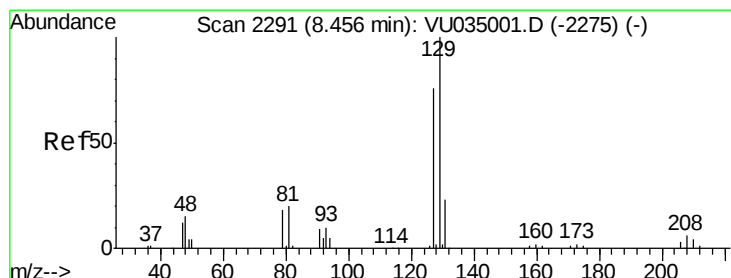
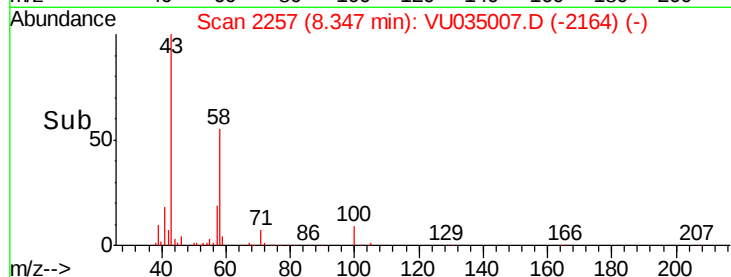
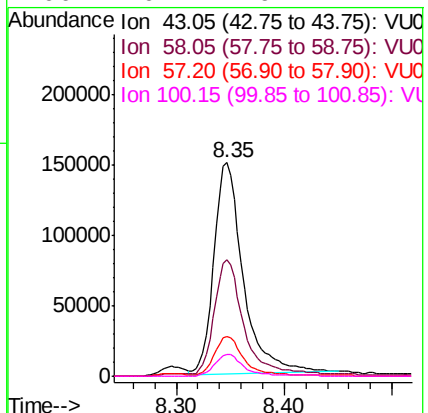
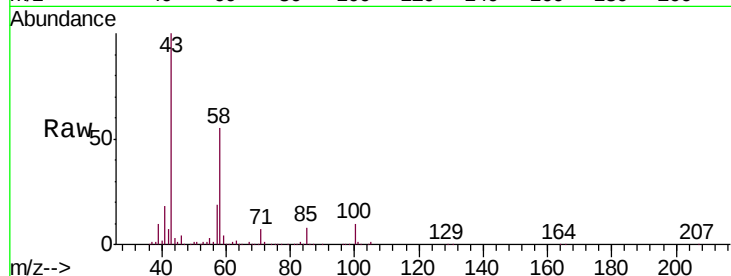




#48
2-Hexanone
Concen: 50.230 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

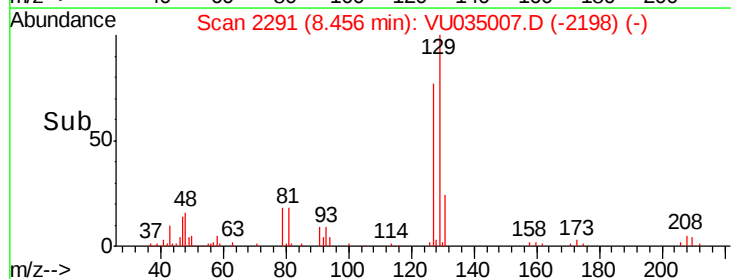
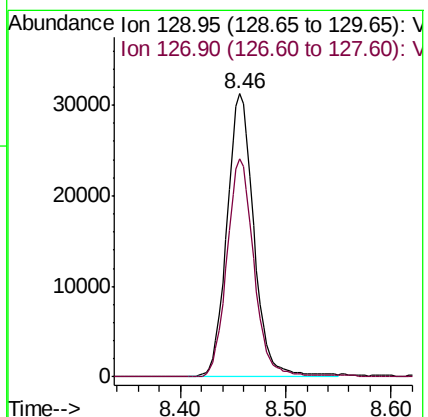
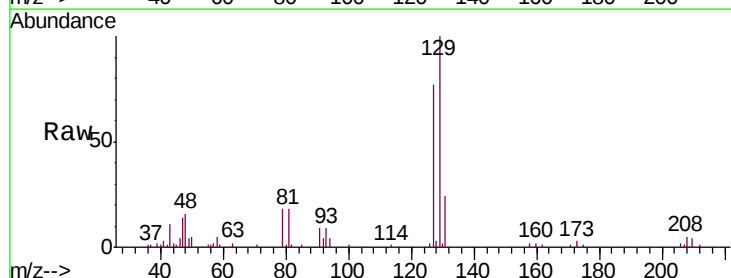
Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

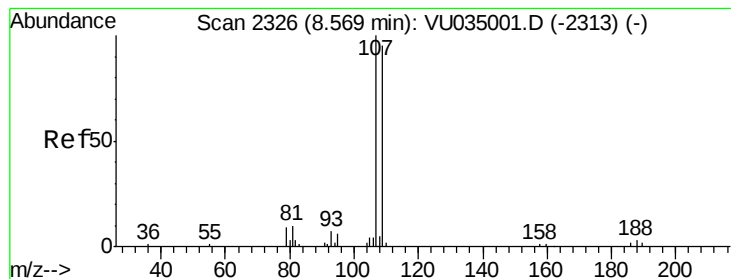
Tgt Ion:	43	Resp:	285099
Ion	Ratio	Lower	Upper
43	100		
58	56.0	44.1	66.1
57	18.5	15.8	23.8
100	10.4	9.4	14.2



#49
Dibromochloromethane
Concen: 5.476 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Tgt Ion:	129	Resp:	55272
Ion	Ratio	Lower	Upper
129	100		
127	76.9	51.9	96.5





#50

1,2-Dibromoethane

Concen: 5.200 ug/L

RT: 8.57 min Scan# 2325

Delta R.T. -0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

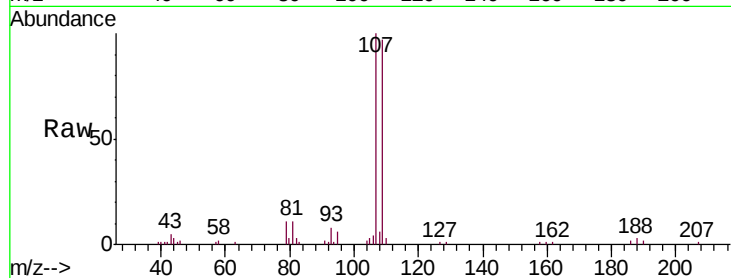
Tgt Ion:107 Resp: 43402

Ion Ratio Lower Upper

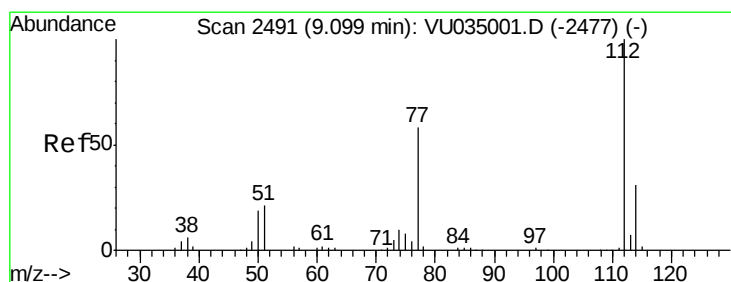
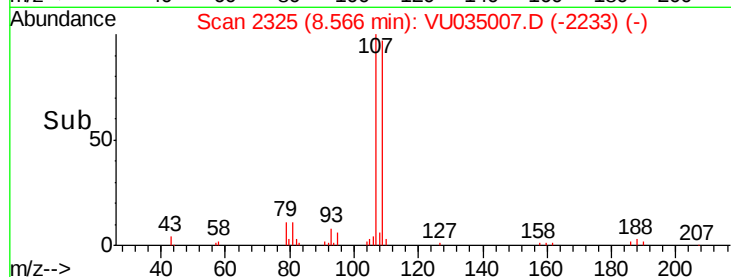
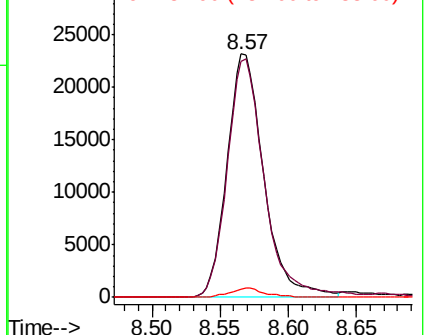
107 100

109 97.1 64.8 120.4

188 3.5 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: 5.453 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. -0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

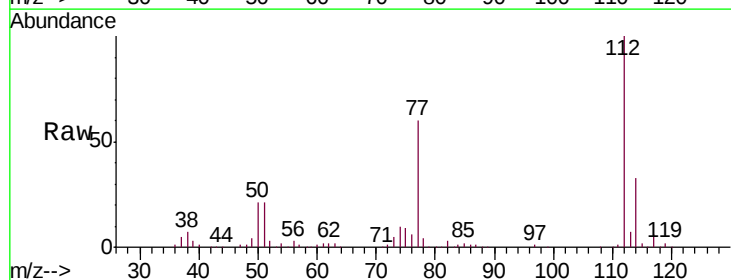
Tgt Ion:112 Resp: 179847

Ion Ratio Lower Upper

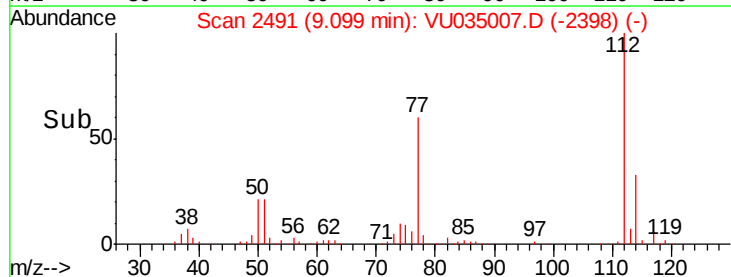
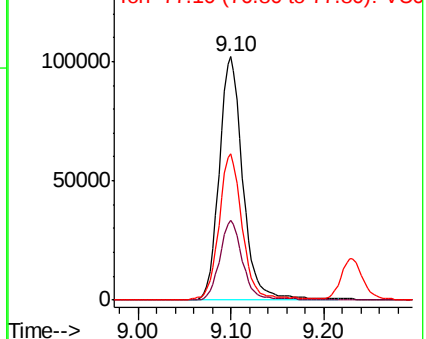
112 100

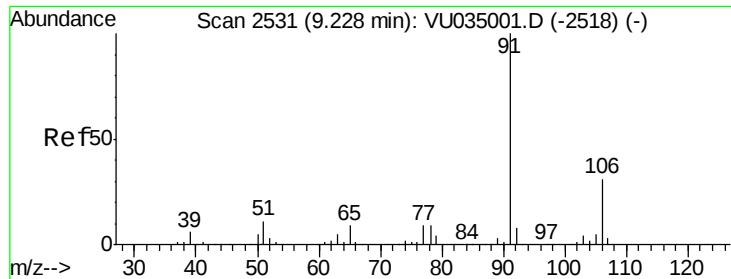
114 32.6 22.1 41.1

77 59.9 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): V





#52

Ethylbenzene

Concen: 5.430 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

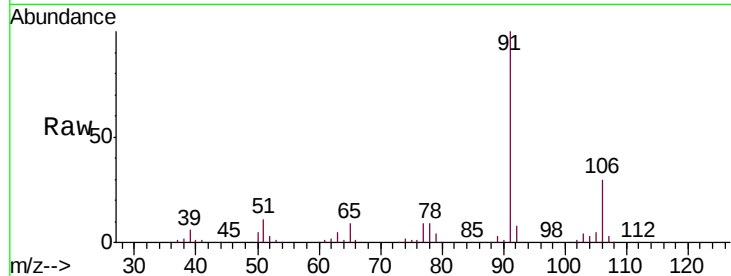
VSTD00510

Tgt Ion: 91 Resp: 305257

Ion Ratio Lower Upper

91 100

106 29.9 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VU035001.D (-2518) (-)

Ion 106.15 (105.85 to 106.85): VU035001.D (-2518) (-)

9.23

200000

150000

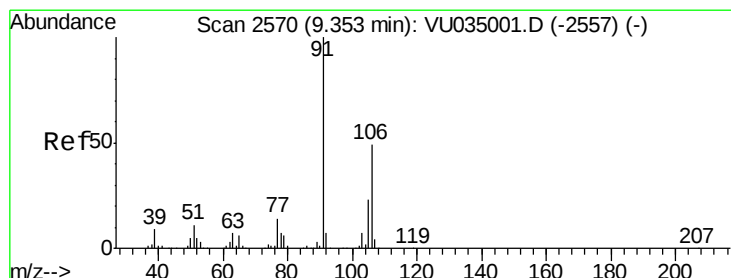
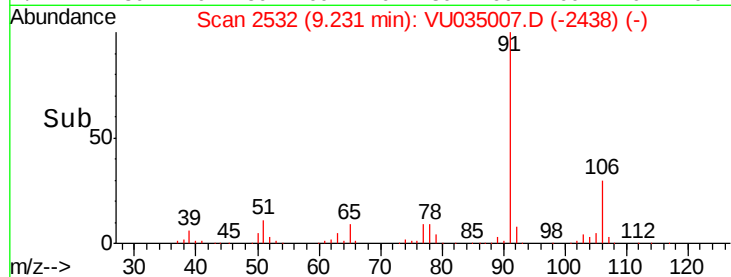
100000

50000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 5.483 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU035007.D

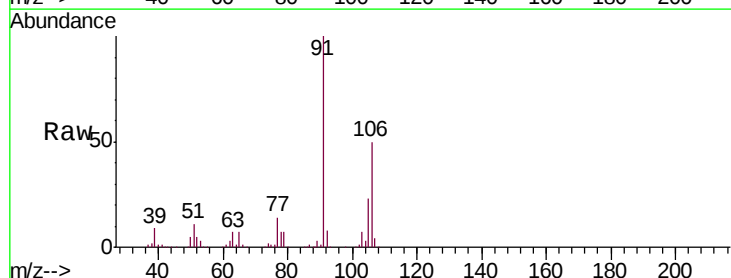
Acq: 09 Oct 2019 14:53

Tgt Ion: 106 Resp: 113852

Ion Ratio Lower Upper

106 100

91 200.9 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): VU035001.D (-2557) (-)

Ion 91.15 (90.85 to 91.85): VU035001.D (-2557) (-)

9.36

150000

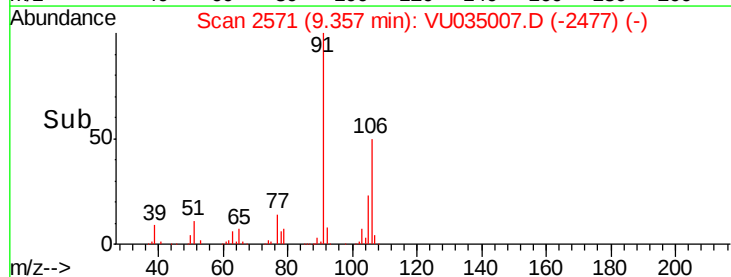
100000

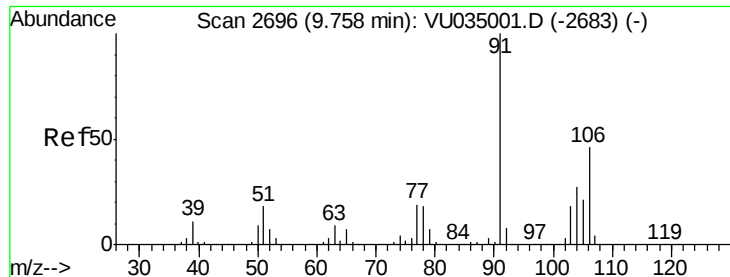
50000

0

9.30 9.35 9.40 9.45 9.50

Time-->

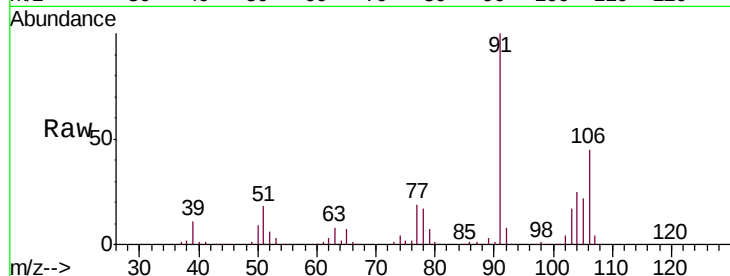




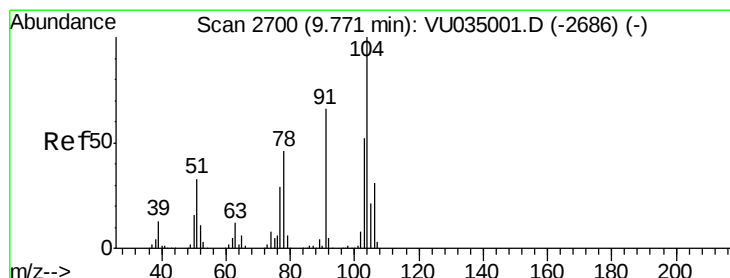
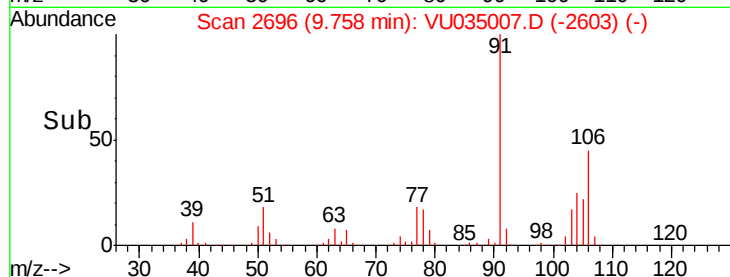
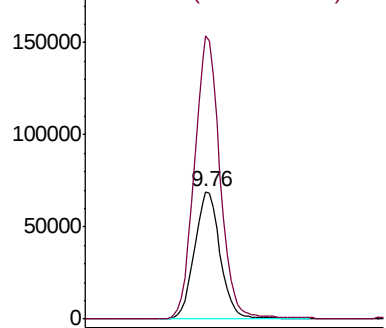
#54
o-Xylene
Concen: 5.518 ug/L
RT: 9.76 min Scan# 2696
Delta R.T. -0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Tgt Ion:106 Resp: 112066
Ion Ratio Lower Upper
106 100
91 221.7 148.5 275.7

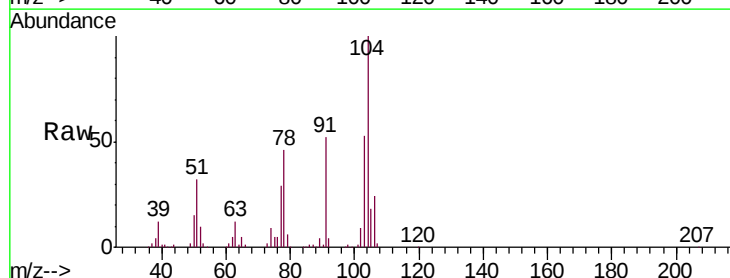


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

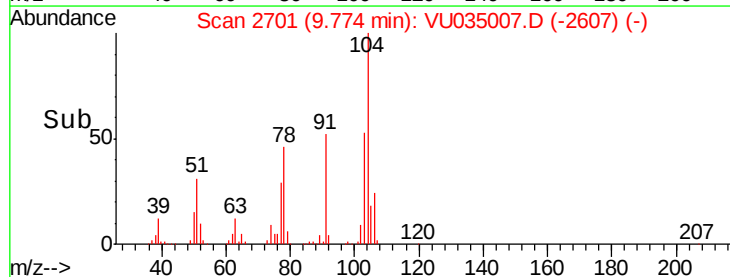
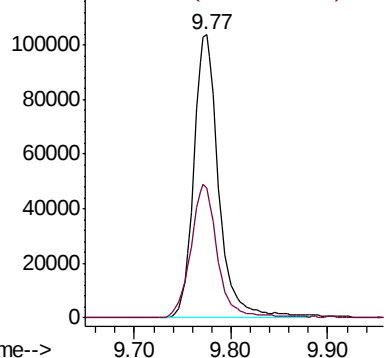


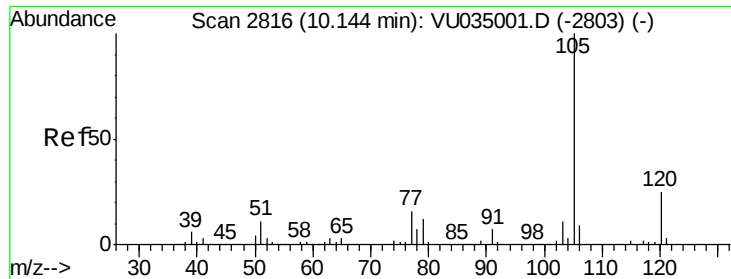
#55
Styrene
Concen: 5.656 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU035007.D
Acq: 09 Oct 2019 14:53

Tgt Ion:104 Resp: 186003
Ion Ratio Lower Upper
104 100
78 45.7 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: 5.615 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

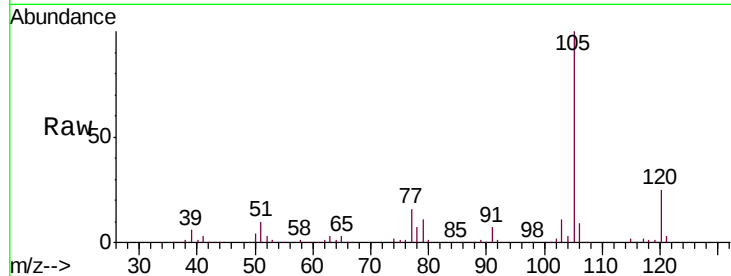
Tgt Ion: 105 Resp: 303788

Ion Ratio Lower Upper

105 100

120 25.9 21.3 31.9

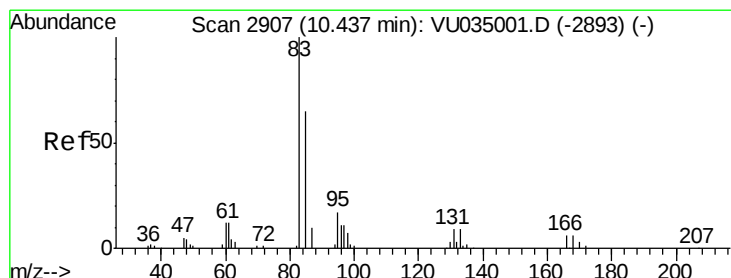
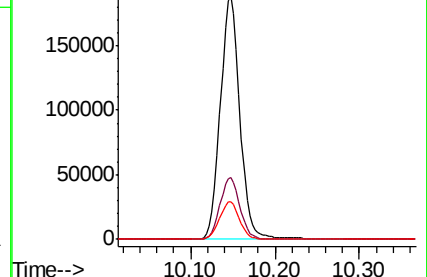
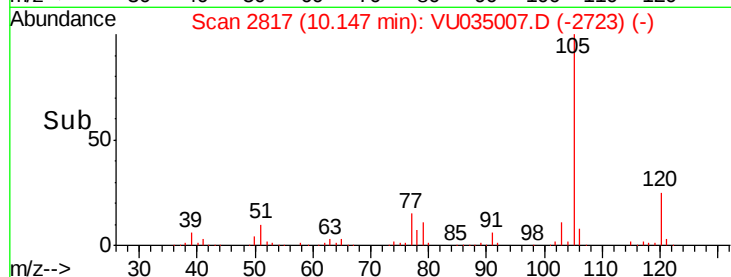
77 15.8 13.0 19.4



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: 5.489 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

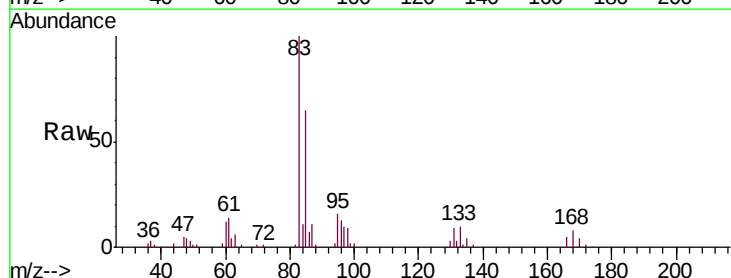
Tgt Ion: 83 Resp: 65193

Ion Ratio Lower Upper

83 100

85 64.7 44.6 82.8

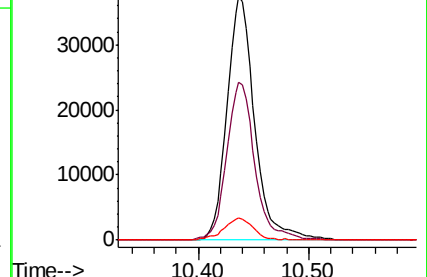
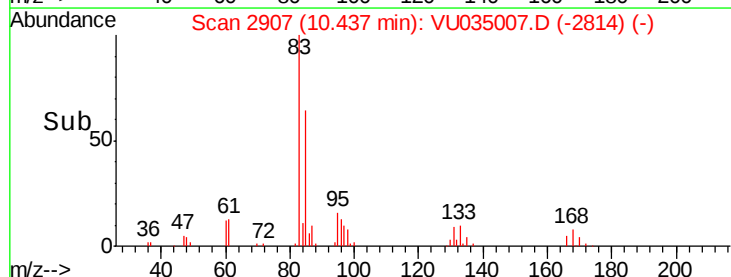
131 9.0 7.4 11.2

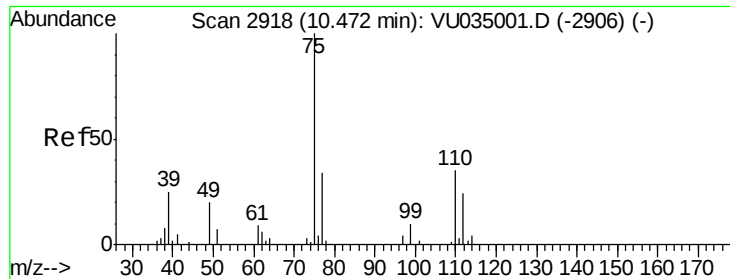


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.303 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

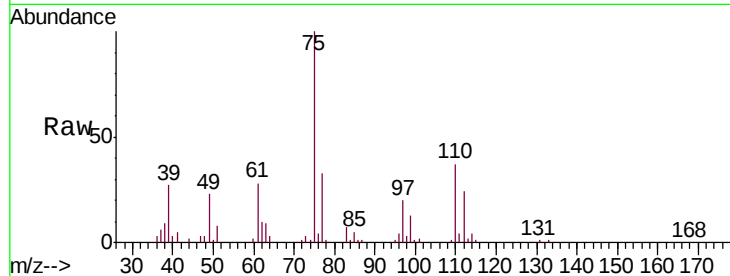
VSTD00510

Tgt Ion: 75 Resp: 45152

Ion Ratio Lower Upper

75 100

77 32.6 26.5 39.7

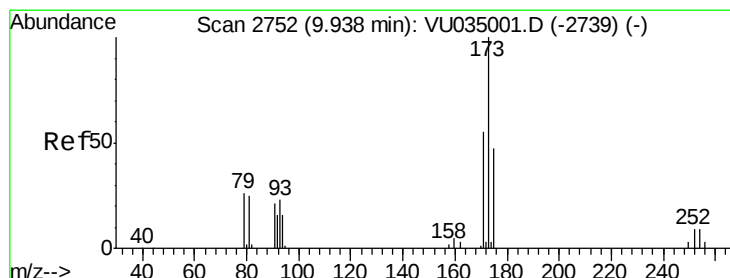
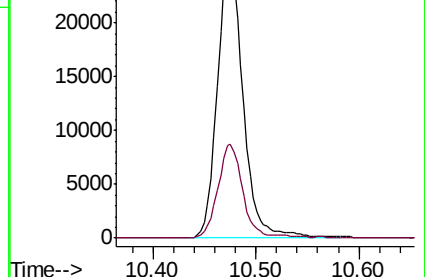
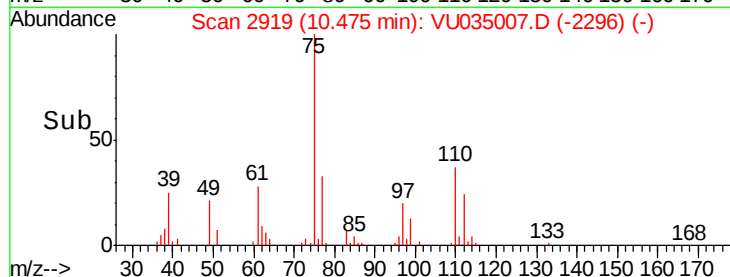


Abundance Ion 75.00 (74.70 to 75.70): VU035007.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU035007.D (-2906) (-)

10.48

Time-->



#61

Bromoform

Concen: 5.456 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

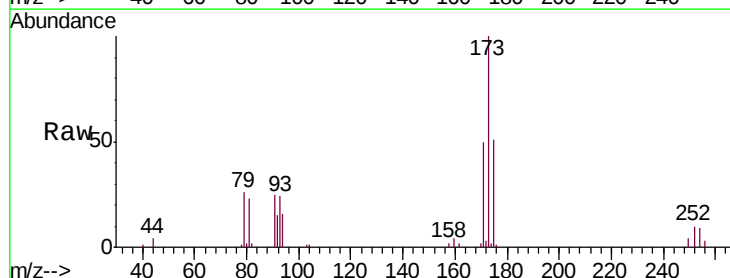
Tgt Ion: 173 Resp: 30552

Ion Ratio Lower Upper

173 100

175 47.8 37.2 55.8

254 8.3 6.6 9.8



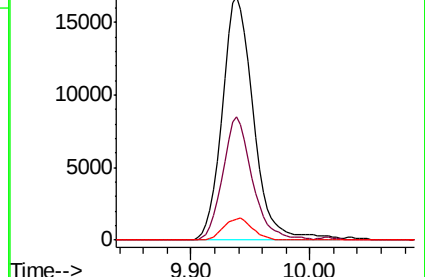
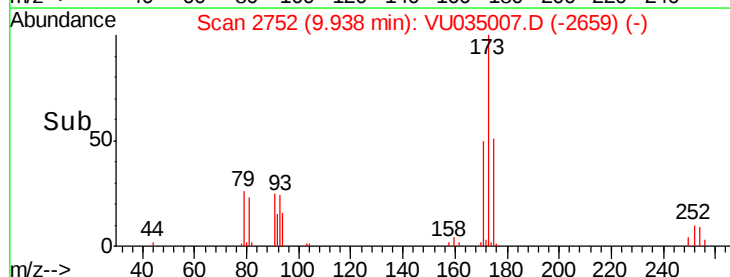
Abundance Ion 172.90 (172.60 to 173.60): VU035007.D (-2659) (-)

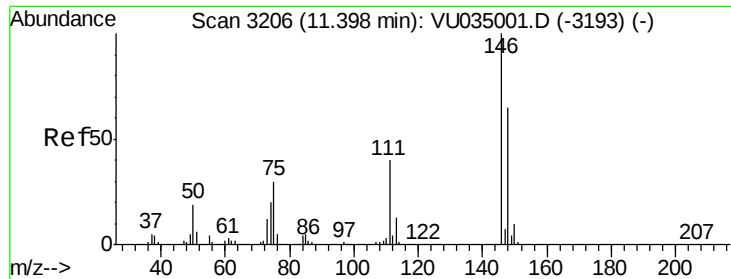
Ion 174.90 (174.60 to 175.60): VU035007.D (-2659) (-)

Ion 253.75 (253.45 to 254.45): VU035007.D (-2659) (-)

9.94

Time-->

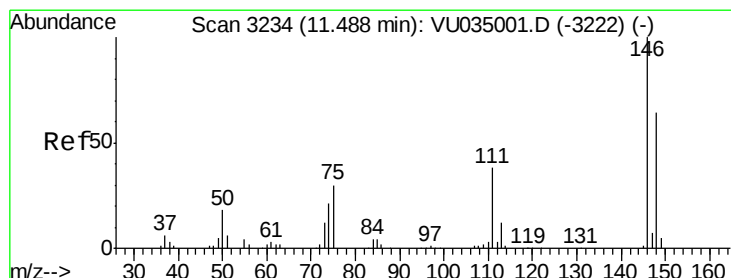
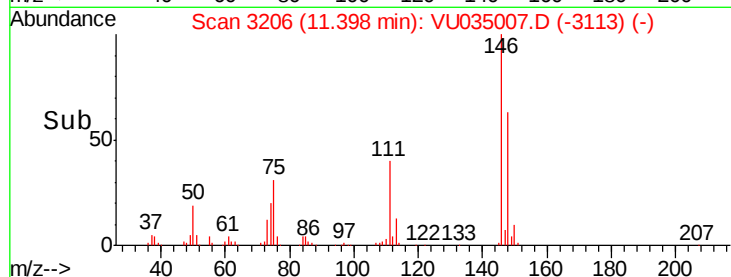
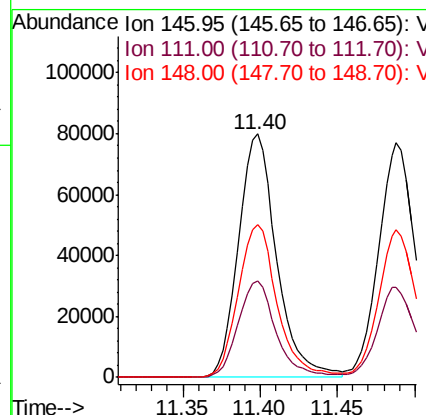
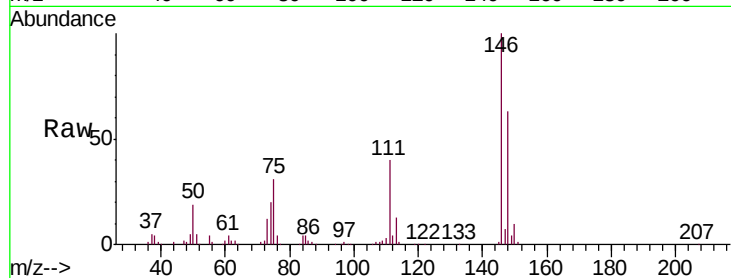




#62
 1,3-Dichlorobenzene
 Concen: 5.441 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

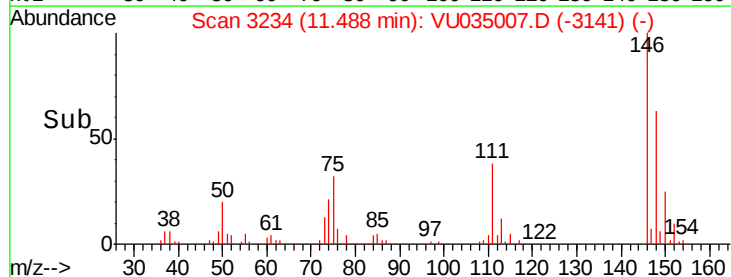
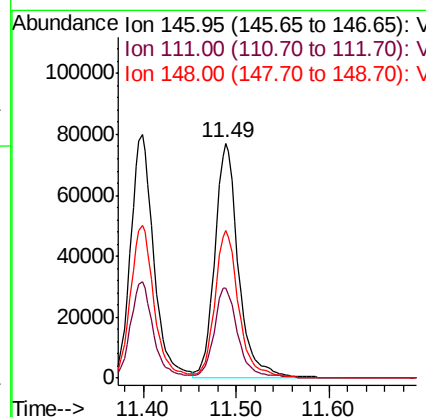
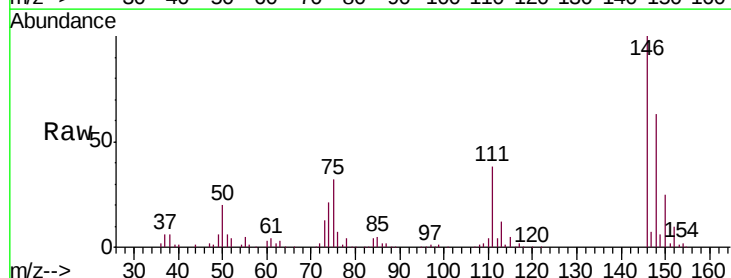
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00510

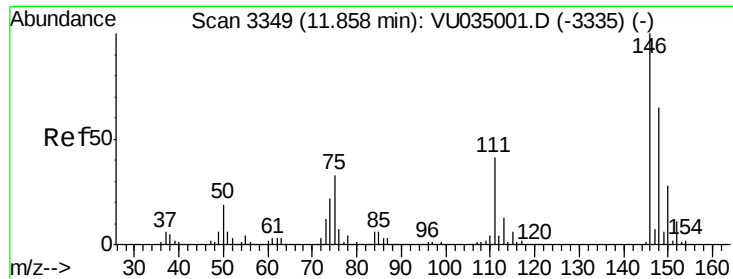
Tgt Ion:146 Resp: 136849
 Ion Ratio Lower Upper
 146 100
 111 39.7 28.6 53.2
 148 62.9 45.0 83.6



#63
 1,4-Dichlorobenzene
 Concen: 5.345 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. -0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

Tgt Ion:146 Resp: 135694
 Ion Ratio Lower Upper
 146 100
 111 38.5 27.9 51.7
 148 62.8 44.1 81.9





#65

1,2-Dichlorobenzene

Concen: 5.282 ug/L

RT: 11.86 min Scan# 3349

Delta R.T. -0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

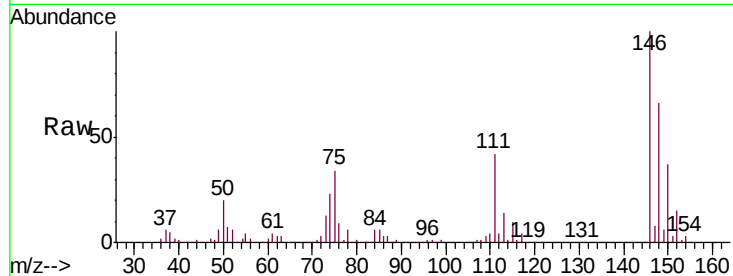
Tgt Ion:146 Resp: 128197

Ion Ratio Lower Upper

146 100

111 41.8 34.2 51.4

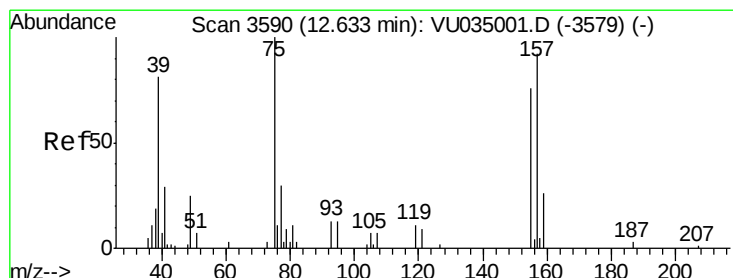
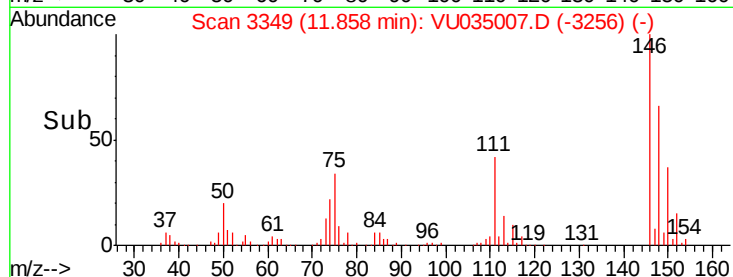
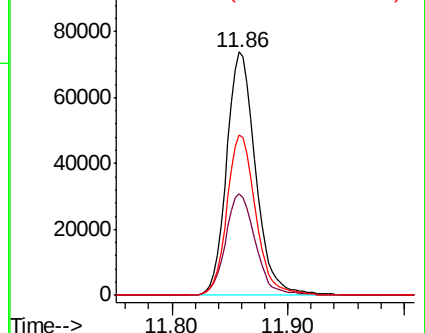
148 66.0 52.0 78.0



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: 5.294 ug/L

RT: 12.64 min Scan# 3592

Delta R.T. 0.01 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

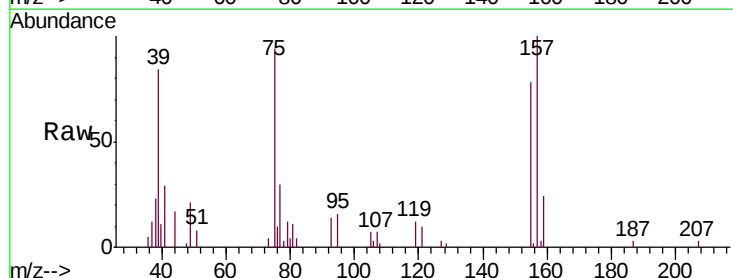
Tgt Ion: 75 Resp: 8165

Ion Ratio Lower Upper

75 100

155 82.5 67.1 100.7

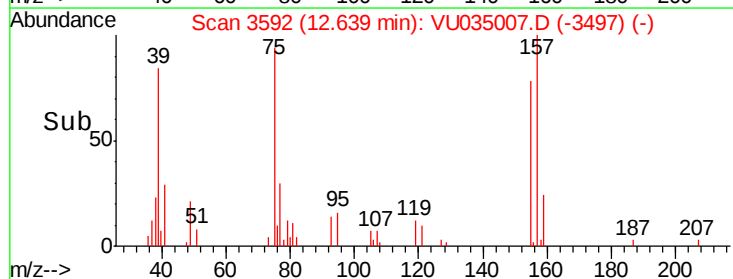
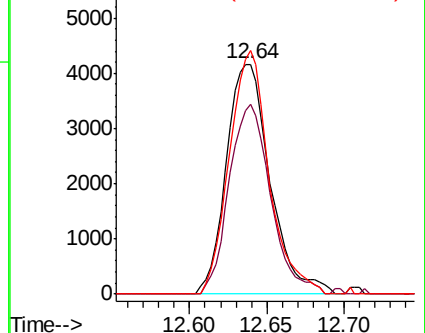
157 106.0 83.7 125.5

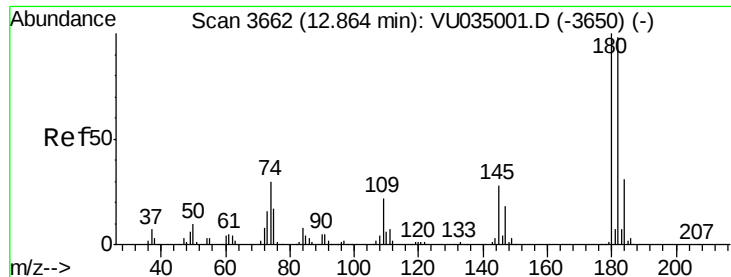


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

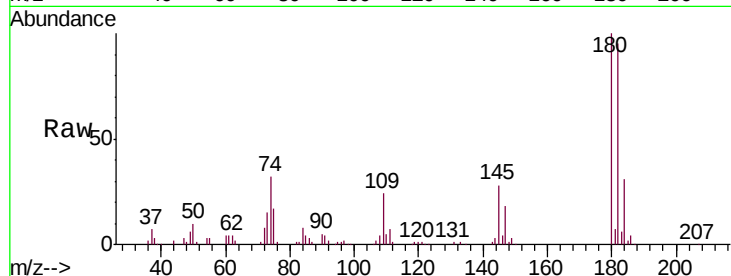




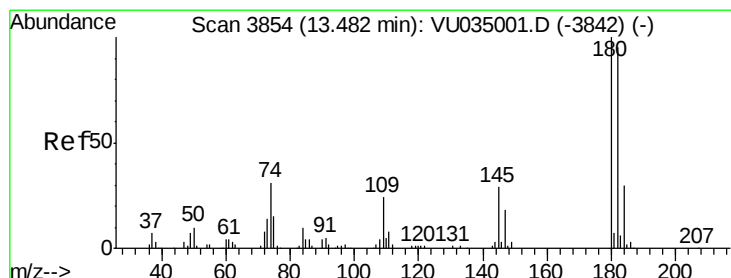
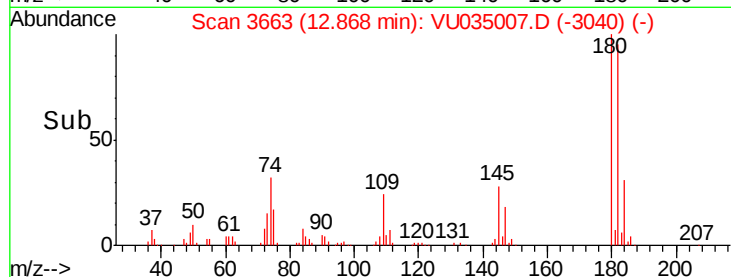
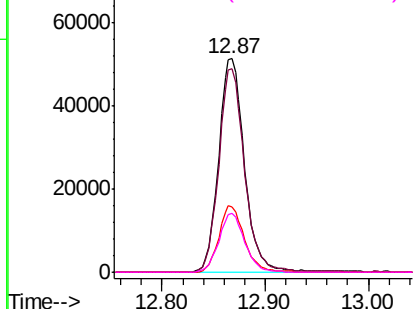
#67
 1,3,5-Trichlorobenzene
 Concen: 5.243 ug/L
 RT: 12.87 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tgt Ion:180 Resp: 89297
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.0 114.0
 184 30.6 24.2 36.2
 145 27.7 24.6 37.0

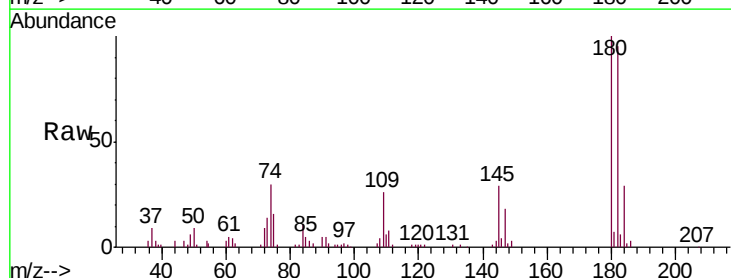


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

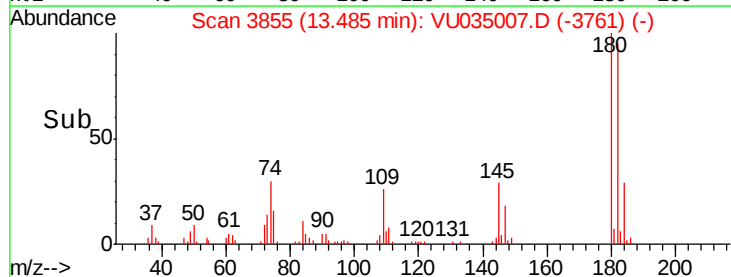
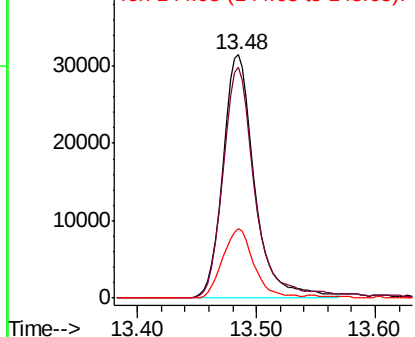


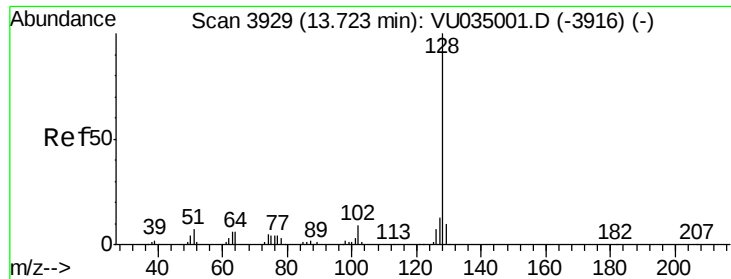
#68
 1,2,4-trichlorobenzene
 Concen: 4.571 ug/L
 RT: 13.48 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU035007.D
 Acq: 09 Oct 2019 14:53

Tgt Ion:180 Resp: 58148
 Ion Ratio Lower Upper
 180 100
 182 93.8 77.3 115.9
 145 28.1 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: 3.929 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

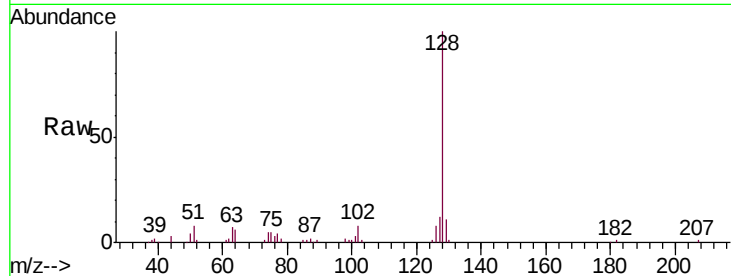
Tgt Ion:128 Resp: 77711

Ion Ratio Lower Upper

128 100

129 10.4 8.7 13.1

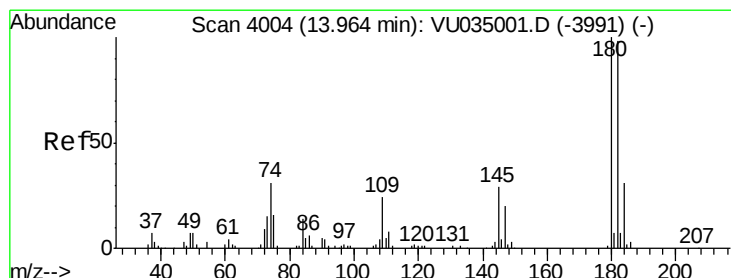
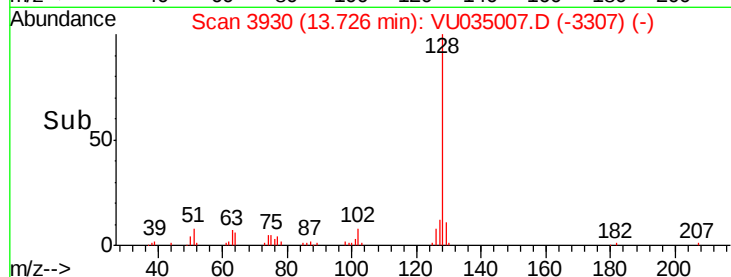
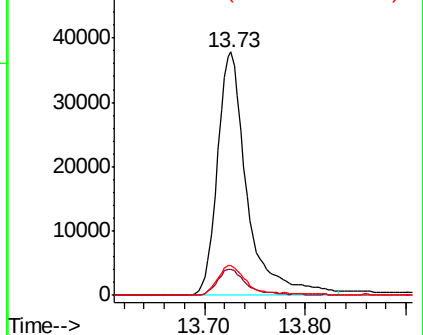
127 11.7 10.6 15.8



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: 4.881 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU035007.D

Acq: 09 Oct 2019 14:53

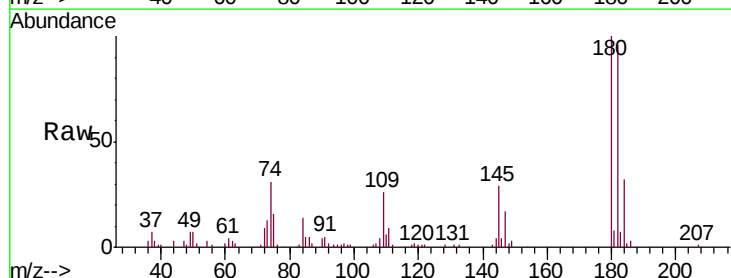
Tgt Ion:180 Resp: 60378

Ion Ratio Lower Upper

180 100

182 95.4 77.0 115.4

145 30.0 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

