

Data File : VU033490.D
Acq On : 30 Jul 2019 13:44
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

Quant Time: Jul 31 08:50:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 31 08:44:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	302321	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	303206	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	161404	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	117437	42.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.56%
7) Chloroethane-d5	1.67	69	101771	44.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.74%
11) 1,1-Dichloroethene-d2	2.26	63	211083	42.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.10%
21) 2-Butanone-d5	4.15	46	159233	101.23	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.23%
24) Chloroform-d	4.62	84	200872	48.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.78%
26) 1,2-Dichloroethane-d4	5.29	65	126313	47.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.32%
32) Benzene-d6	5.32	84	394905	48.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.04%
36) 1,2-Dichloropropane-d6	6.31	67	124874	49.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.92%
41) Toluene-d8	7.55	98	373128	48.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.52%
43) trans-1,3-Dichloropropene-	7.83	79	59019	47.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.68%
47) 2-Hexanone-d5	8.29	63	111916	106.71	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.71%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	190662	49.21	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.42%
66) 1,2-Dichlorobenzene-d4	11.85	152	150363	48.48	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.96%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	148892	49.361	ug/L 100
3) Chloromethane	1.32	50	143126	47.526	ug/L 100
5) Vinyl chloride	1.40	62	166011	48.203	ug/L 99
6) Bromomethane	1.61	94	107029	44.465	ug/L 99
8) Chloroethane	1.68	64	103329	48.911	ug/L 98
9) Trichlorofluoromethane	1.87	101	226814	50.212	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	108295	47.709	ug/L 99
12) 1,1-Dichloroethene	2.27	96	103789	46.925	ug/L 93
13) Acetone	2.31	43	143676	92.161	ug/L 98
14) Carbon disulfide	2.46	76	309120	46.908	ug/L 99
15) Methyl Acetate	2.60	43	122070	48.826	ug/L 99
16) Methylene chloride	2.68	84	119828	49.312	ug/L 98
17) trans-1,2-Dichloroethene	2.96	96	106400	48.429	ug/L 98
18) Methyl tert-butyl Ether	2.98	73	329706	50.855	ug/L 99
19) 1,1-Dichloroethane	3.42	63	204132	49.348	ug/L 99
20) cis-1,2-Dichloroethene	4.20	96	121791	50.226	ug/L 99
22) 2-Butanone	4.23	43	188715	101.878	ug/L 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	64214	49.860	ug/L	97
25) Chloroform	4.65	83	218100	49.729	ug/L	99
27) 1,2-Dichloroethane	5.38	62	170260	49.991	ug/L	100
29) Cyclohexane	4.97	56	170362	51.142	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	182123	50.447	ug/L	99
31) Carbon tetrachloride	5.11	117	160178	49.843	ug/L	99
33) Benzene	5.37	78	463919	51.190	ug/L	100
34) Trichloroethene	6.16	95	118265	50.087	ug/L	99
35) Methylcyclohexane	6.40	83	180095	50.160	ug/L	98
37) 1,2-Dichloropropane	6.41	63	123368	50.614	ug/L	100
38) Bromodichloromethane	6.74	83	161170	50.230	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	188324	51.814	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	334811	104.231	ug/L	99
42) Toluene	7.62	91	515982	52.906	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	168524	51.084	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	120047	51.640	ug/L	98
46) Tetrachloroethene	8.21	164	96115	50.021	ug/L	97
48) 2-Hexanone	8.34	43	273794	104.624	ug/L	99
49) Dibromochloromethane	8.46	129	134963	51.851	ug/L	98
50) 1,2-Dibromoethane	8.57	107	129334	51.284	ug/L	98
51) Chlorobenzene	9.10	112	324968	50.150	ug/L	99
52) Ethylbenzene	9.23	91	549334	51.961	ug/L	100
53) m,p-Xylene	9.36	106	211400	53.175	ug/L	99
54) o-xylene	9.76	106	209038	53.627	ug/L	96
55) Styrene	9.77	104	358107	54.139	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.44	83	208890	50.545	ug/L	98
59) Bromoform	9.94	173	99077	49.072	ug/L	98
60) 1,2,3-Trichloropropane	10.48	75	164408	49.998	ug/L	98
61) Isopropylbenzene	10.15	105	529742	51.241	ug/L	100
62) 1,3,5-Trimethylbenzene	10.76	105	447033	53.366	ug/L	99
63) 1,2,4-Trimethylbenzene	11.13	105	445931	53.677	ug/L	100
64) 1,3-Dichlorobenzene	11.40	146	258474	49.050	ug/L	99
65) 1,4-Dichlorobenzene	11.49	146	262287	48.180	ug/L	99
67) 1,2-Dichlorobenzene	11.86	146	258197	48.904	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.64	75	44768	48.969	ug/L	95
69) 1,3,5-Trichlorobenzene	12.87	180	195809	48.939	ug/L	99
70) 1,2,4-trichlorobenzene	13.49	180	168261	50.386	ug/L	97
71) Naphthalene	13.73	128	488892	50.631	ug/L	99
72) 1,2,3-Trichlorobenzene	13.97	180	174811	49.975	ug/L	99

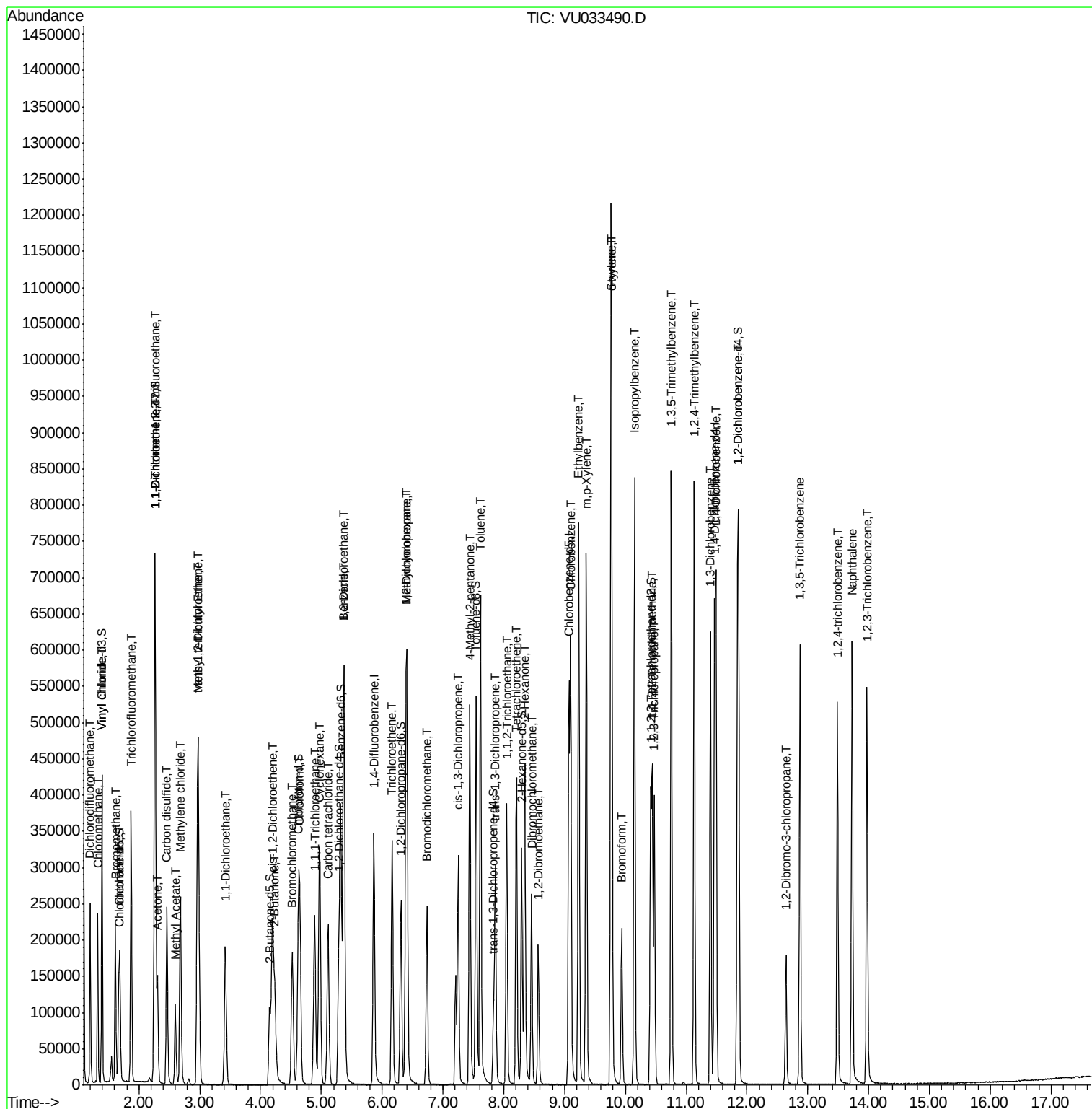
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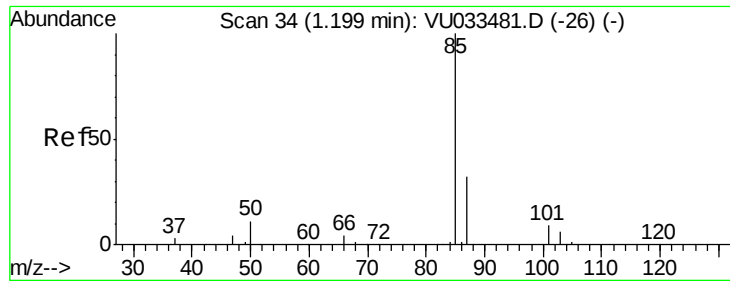
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#2

Dichlorodifluoromethane

Concen: 49.361 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

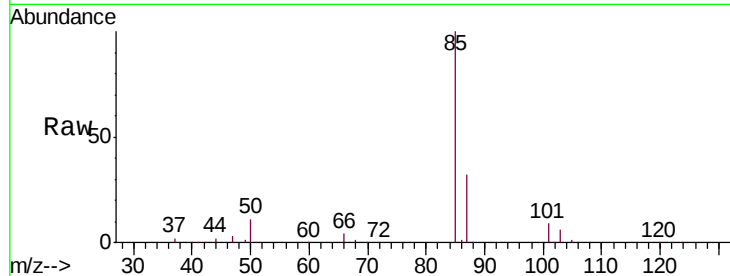
VSTD05039

Tgt Ion: 85 Resp: 148892

Ion Ratio Lower Upper

85 100

87 31.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033481.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033481.D (-26) (-)

1.20

150000

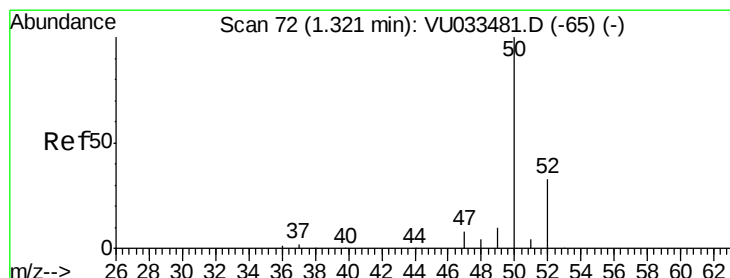
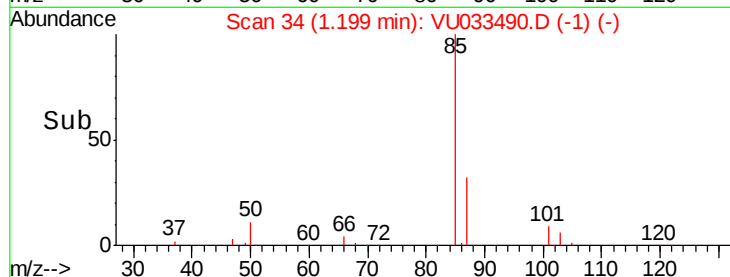
100000

50000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 47.526 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033490.D

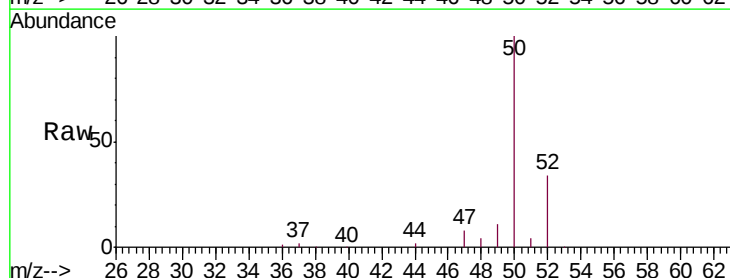
Acq: 30 Jul 2019 13:44

Tgt Ion: 50 Resp: 143126

Ion Ratio Lower Upper

50 100

52 33.5 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033481.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU033481.D (-65) (-)

1.32

150000

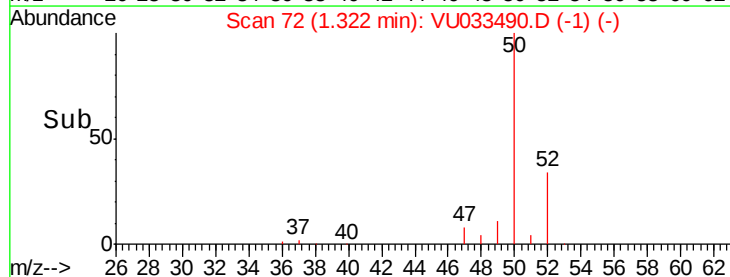
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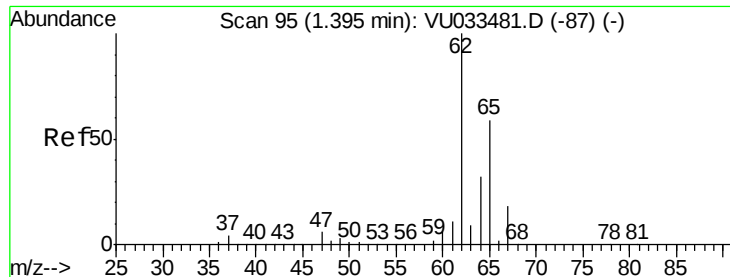
50000

0

1.30 1.35

Time-->





#5

Vinyl chloride

Concen: 48.203 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

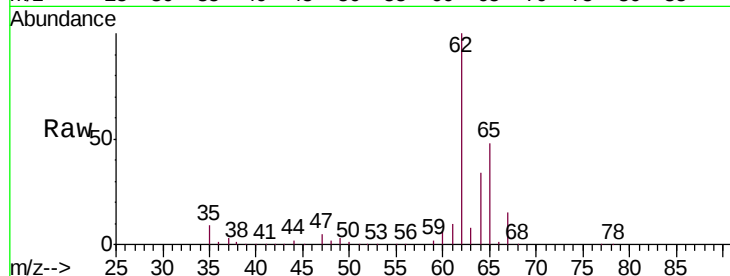
VSTD05039

Tgt Ion: 62 Resp: 166011

Ion Ratio Lower Upper

62 100

64 33.5 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU033481.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033481.D (-87) (-)

1.40

150000

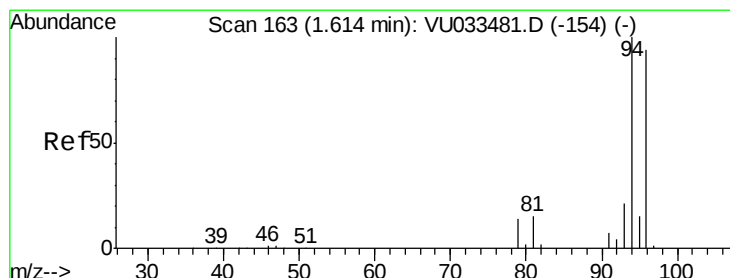
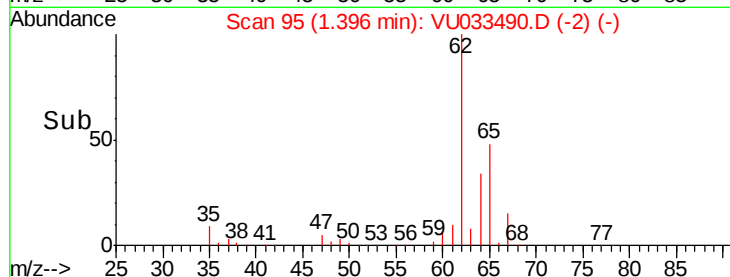
100000

50000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 44.465 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU033490.D

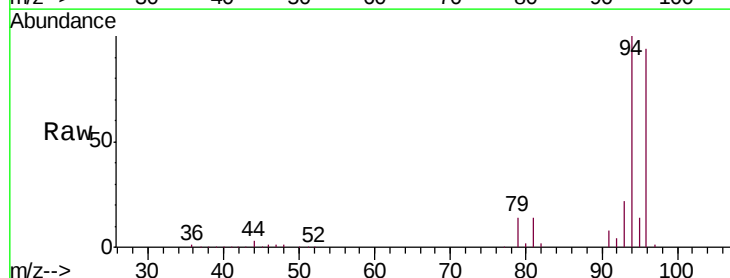
Acq: 30 Jul 2019 13:44

Tgt Ion: 94 Resp: 107029

Ion Ratio Lower Upper

94 100

96 93.6 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU033481.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033481.D (-154) (-)

1.61

80000

60000

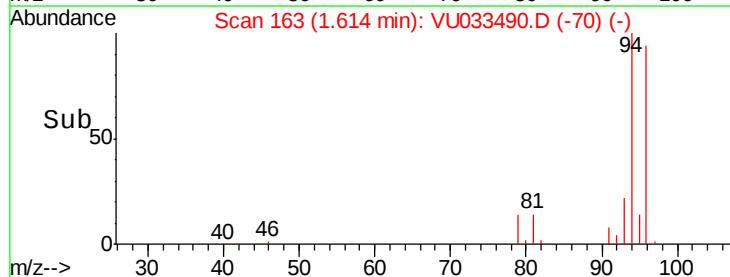
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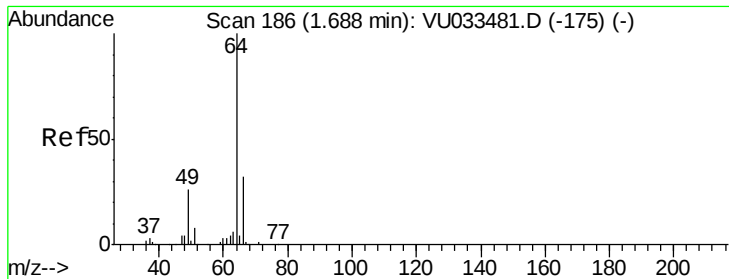
20000

0

Time-->

1.55 1.60 1.65 1.70





#8

Chloroethane

Concen: 48.911 ug/L

RT: 1.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

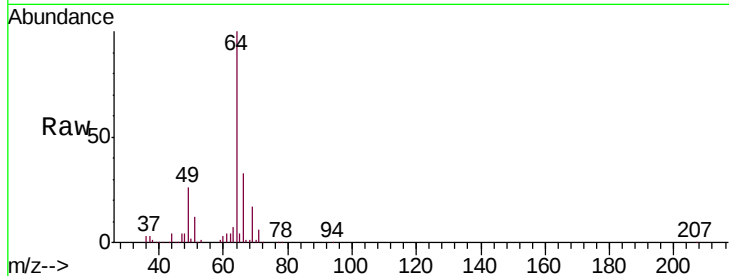
VSTD05039

Tgt Ion: 64 Resp: 103329

Ion Ratio Lower Upper

64 100

66 32.7 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU033481.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033481.D (-175) (-)

1.68

80000

60000

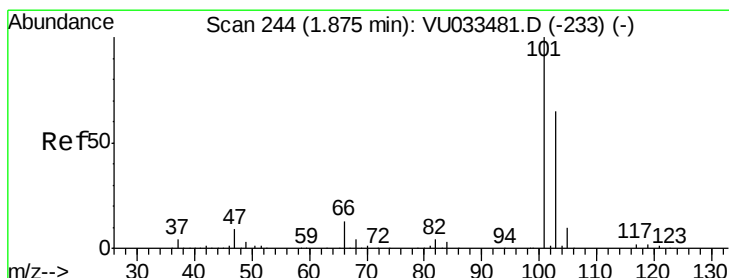
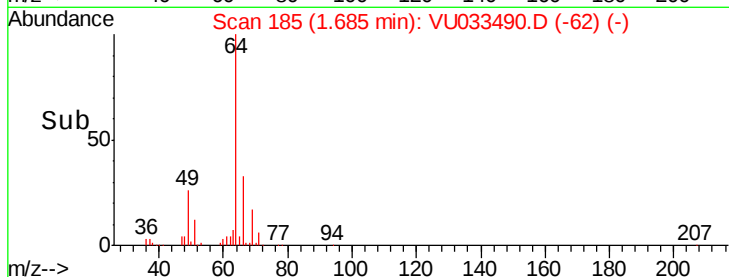
40000

20000

0

Time-->

1.60 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 50.212 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033490.D

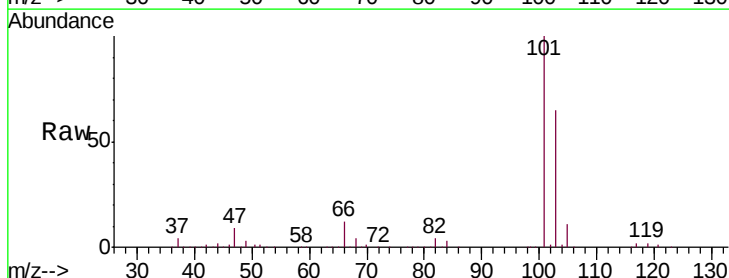
Acq: 30 Jul 2019 13:44

Tgt Ion: 101 Resp: 226814

Ion Ratio Lower Upper

101 100

103 64.2 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU033481.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033481.D (-233) (-)

1.87

150000

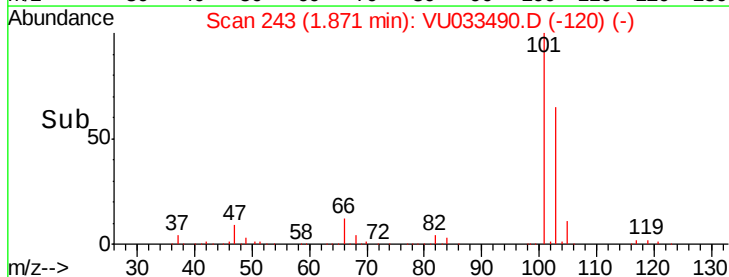
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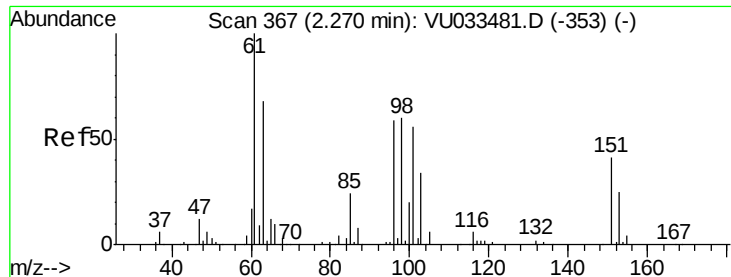
50000

0

Time-->

1.80 1.85 1.90 1.95





#10

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

Concen: 47.709 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

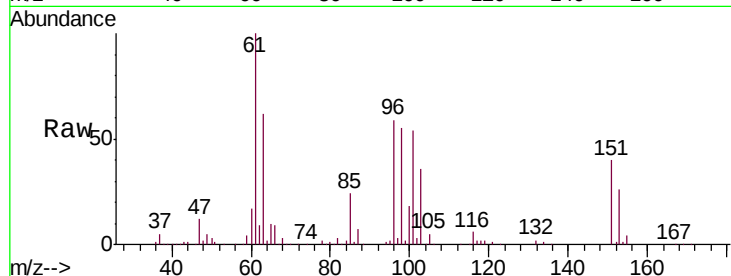
Tgt Ion: 101 Resp: 108295

Ion Ratio Lower Upper

101 100

85 43.5 35.8 53.8

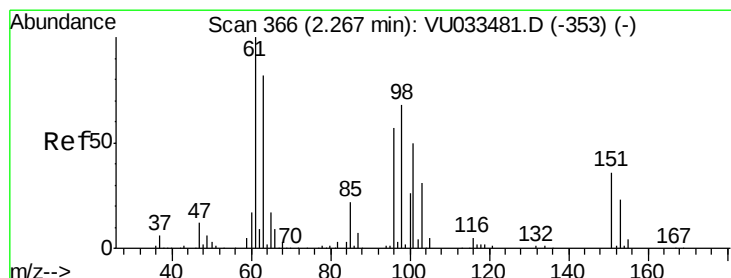
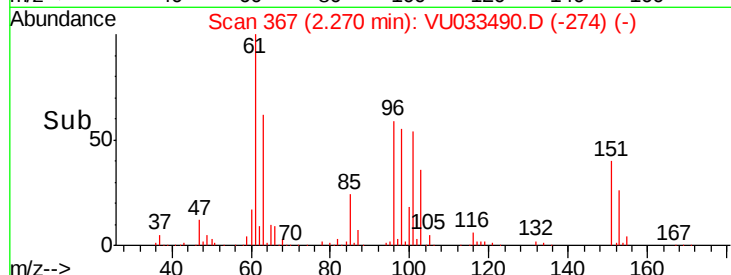
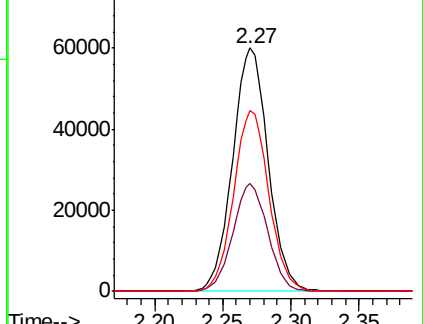
151 73.5 58.6 87.8



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: 46.925 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

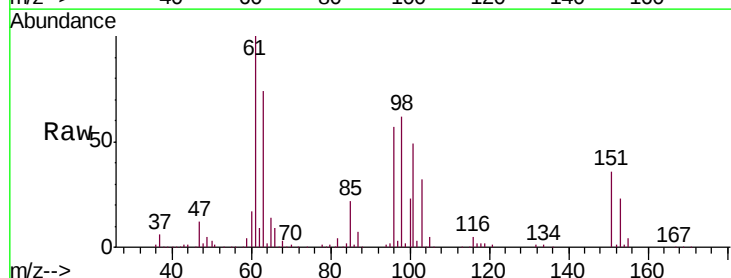
Tgt Ion: 96 Resp: 103789

Ion Ratio Lower Upper

96 100

61 174.2 124.1 230.5

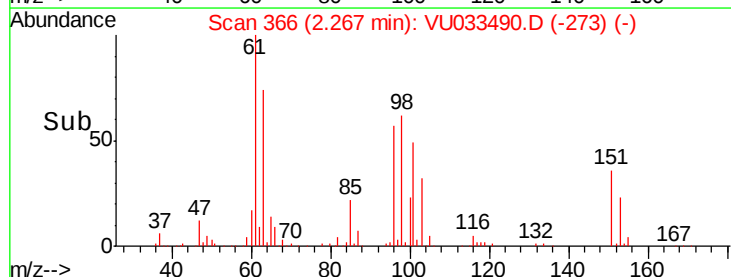
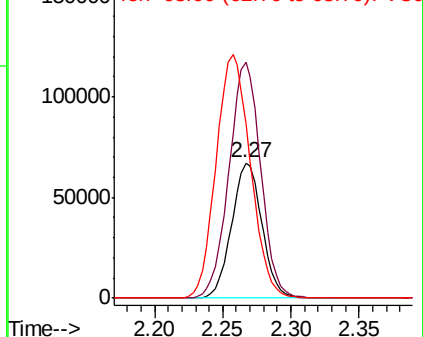
63 129.0 101.8 189.2

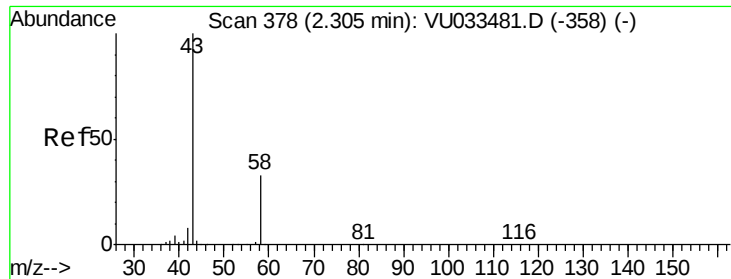


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 92.161 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

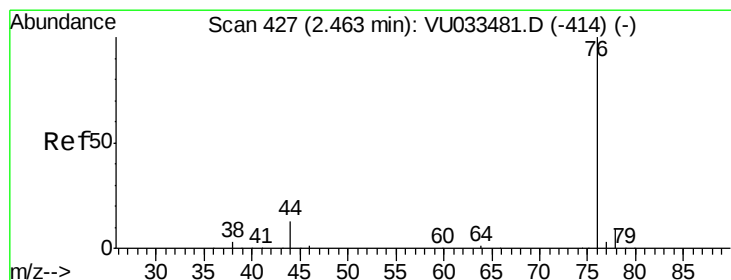
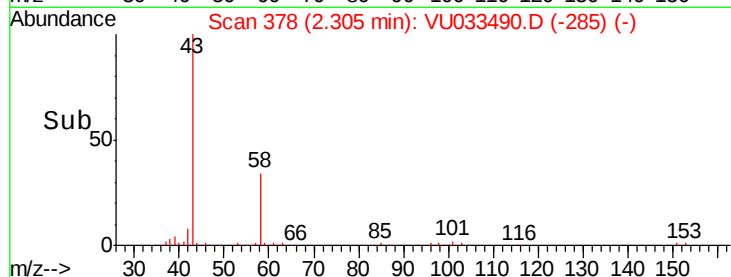
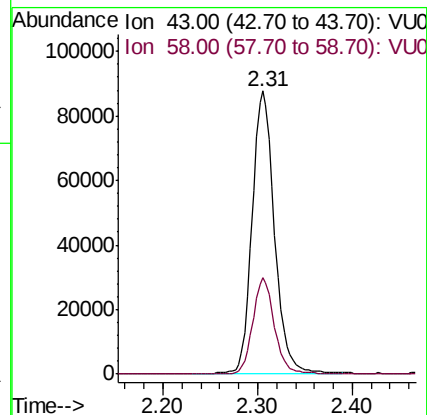
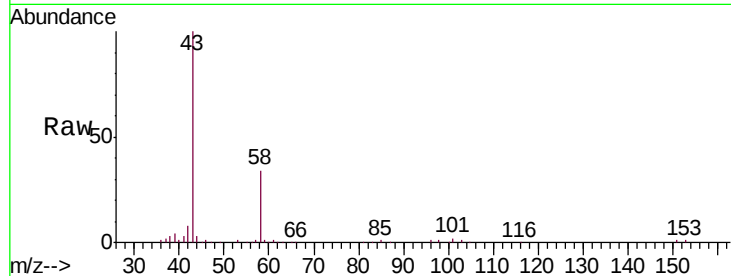
VSTD05039

Tgt Ion: 43 Resp: 143676

Ion Ratio Lower Upper

43 100

58 32.8 0.0 67.4



#14

Carbon disulfide

Concen: 46.908 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033490.D

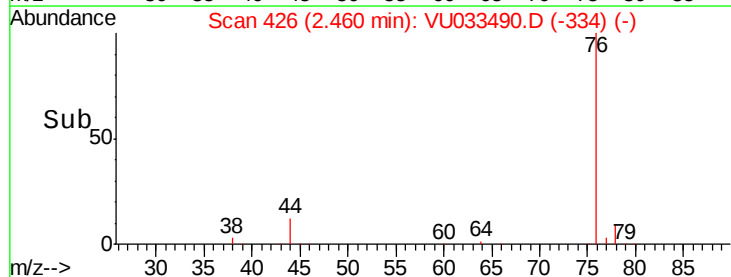
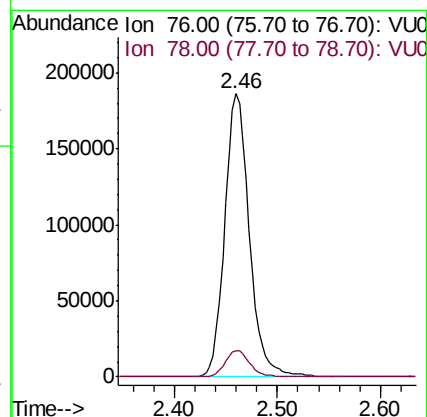
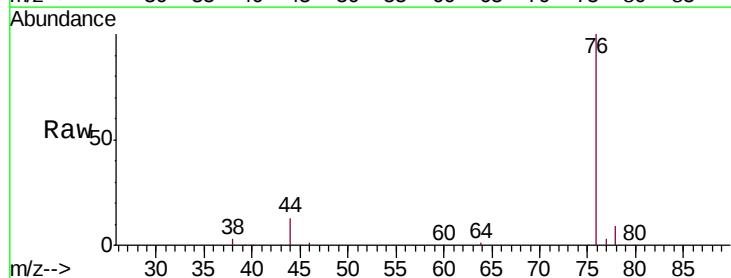
Acq: 30 Jul 2019 13:44

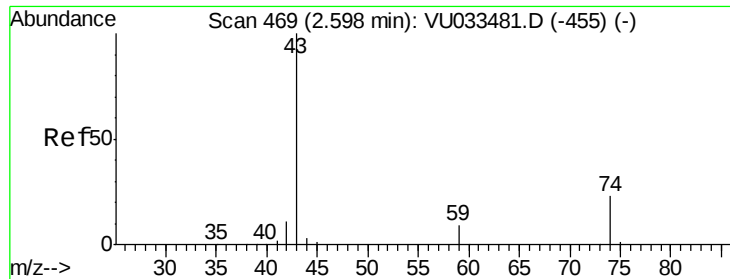
Tgt Ion: 76 Resp: 309120

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8

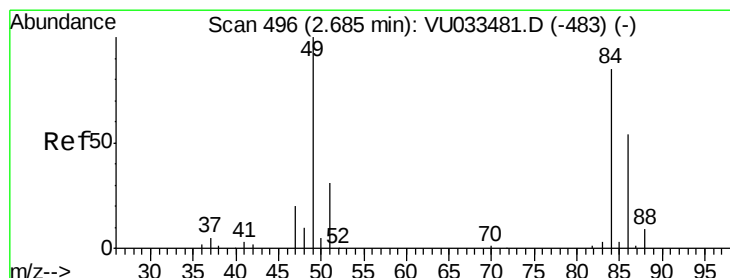
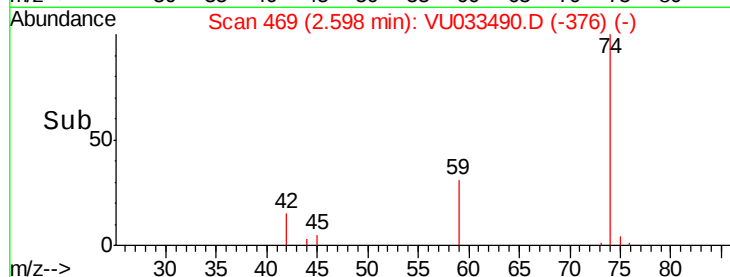
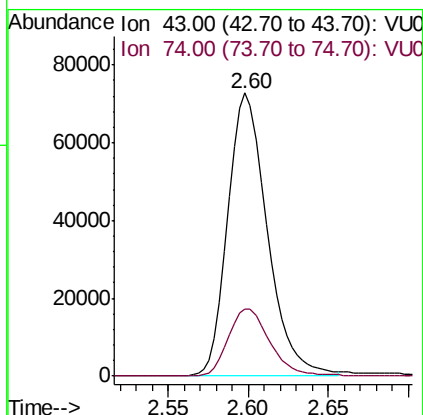
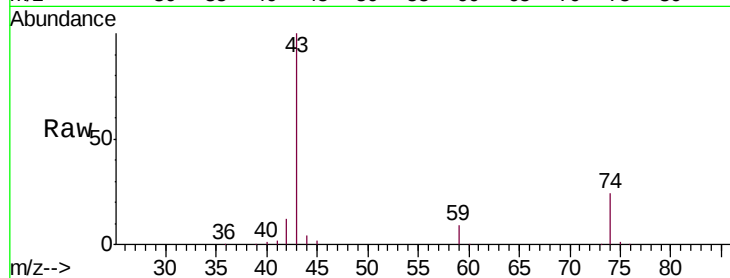




#15
Methyl Acetate
Concen: 48.826 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

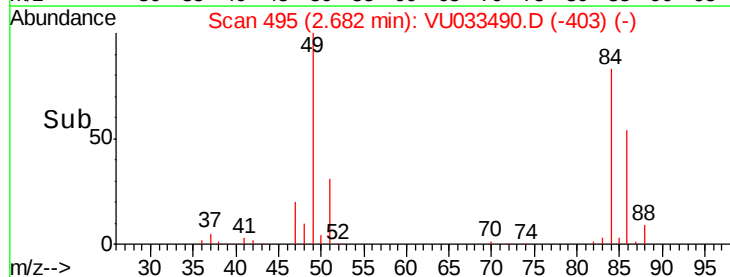
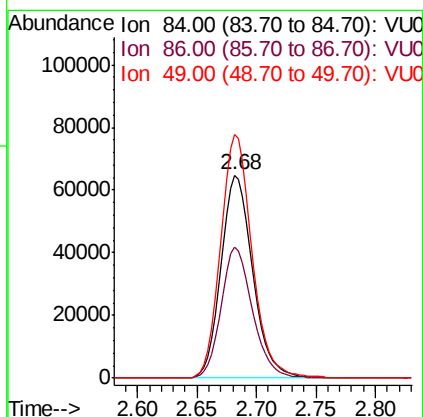
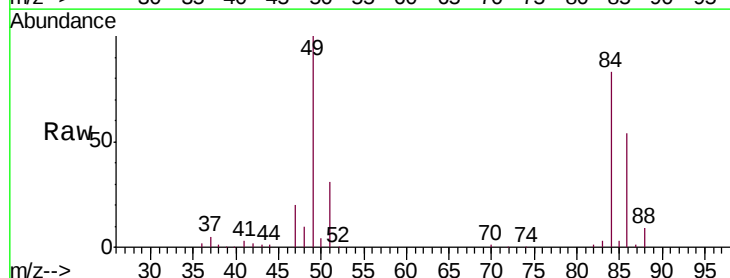
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

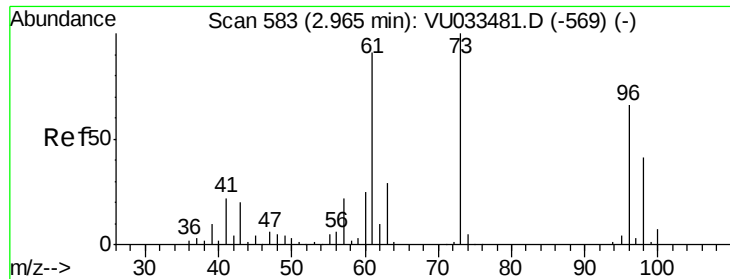
Tgt Ion: 43 Resp: 122070
Ion Ratio Lower Upper
43 100
74 25.0 20.5 30.7



#16
Methylene chloride
Concen: 49.312 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

Tgt Ion: 84 Resp: 119828
Ion Ratio Lower Upper
84 100
86 64.5 44.2 82.0
49 119.9 82.3 152.8





#17

trans-1,2-Dichloroethene

Concen: 48.429 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

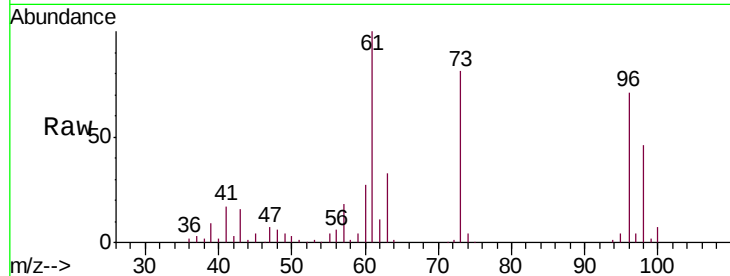
Tgt Ion: 96 Resp: 106400

Ion Ratio Lower Upper

96 100

61 140.3 100.3 186.3

98 64.1 45.1 83.9

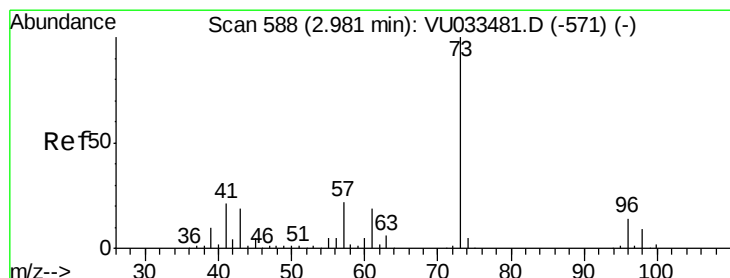
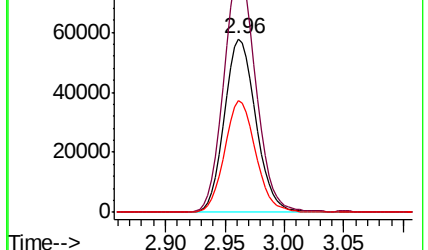
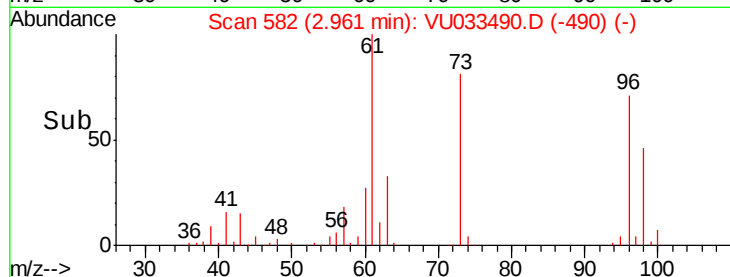


Abundance Ion 96.00 (95.70 to 96.70): VU033481.D (-569) (-)

Ion 61.00 (60.70 to 61.70): VU033481.D (-569) (-)

Ion 98.00 (97.70 to 98.70): VU033481.D (-569) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 50.855 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

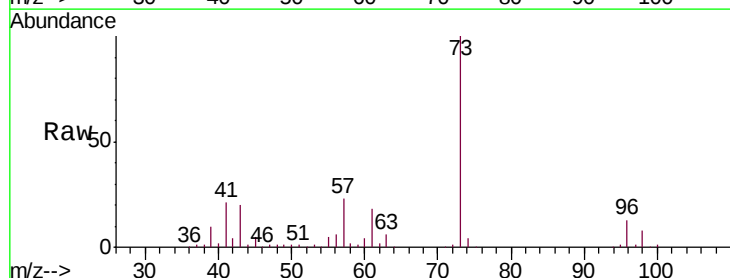
Tgt Ion: 73 Resp: 329706

Ion Ratio Lower Upper

73 100

43 19.7 15.3 22.9

57 22.4 17.7 26.5

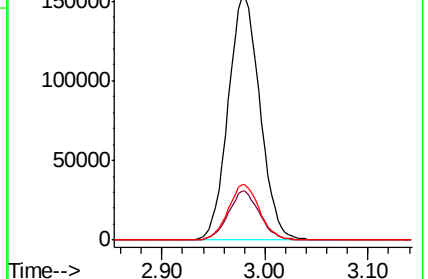
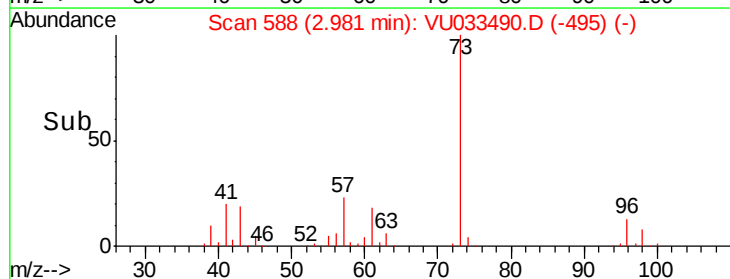


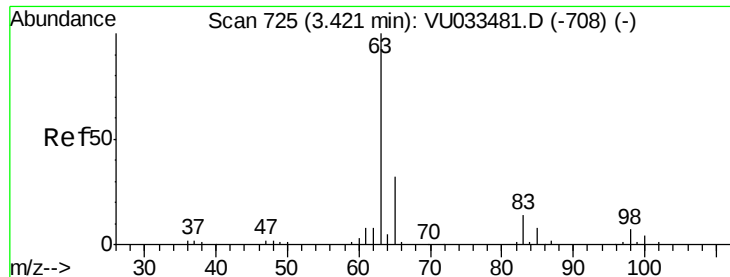
Abundance Ion 73.00 (72.70 to 73.70): VU033481.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033481.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033481.D (-571) (-)

Time-->





#19

1,1-Dichloroethane

Concen: 49.348 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

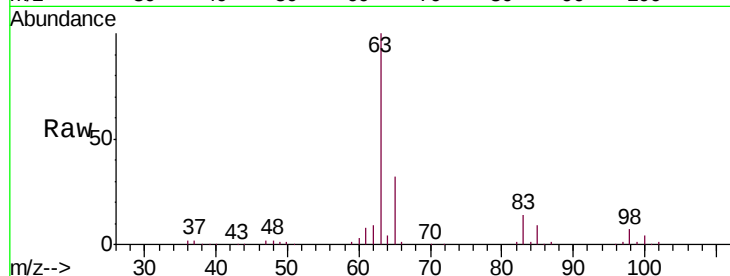
Tgt Ion: 63 Resp: 204132

Ion Ratio Lower Upper

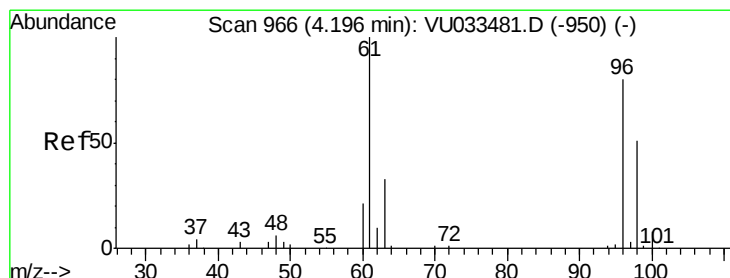
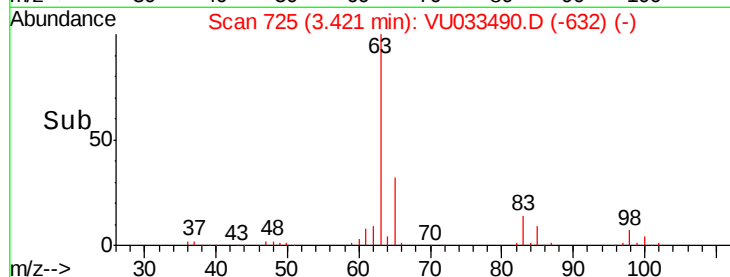
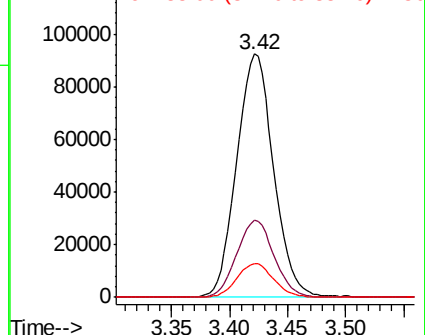
63 100

65 31.6 22.7 42.1

83 13.8 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 50.226 ug/L

RT: 4.20 min Scan# 966

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

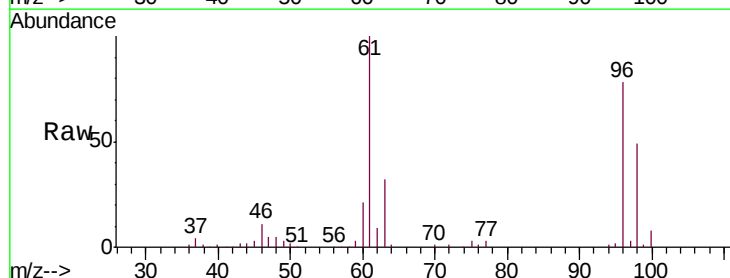
Tgt Ion: 96 Resp: 121791

Ion Ratio Lower Upper

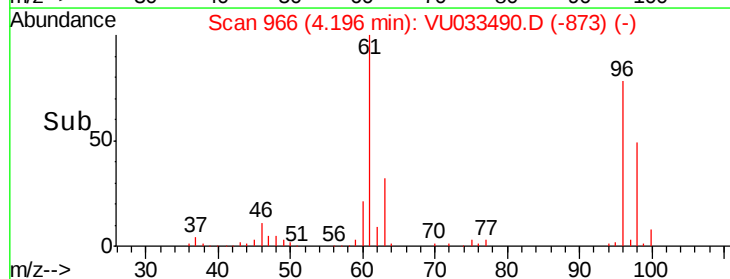
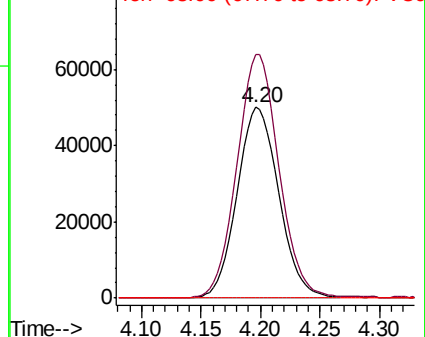
96 100

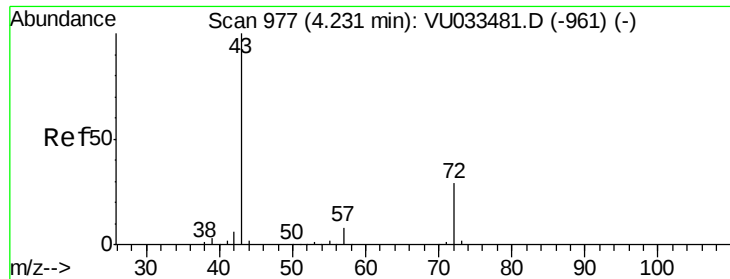
61 127.7 88.9 165.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 101.878 ug/L

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

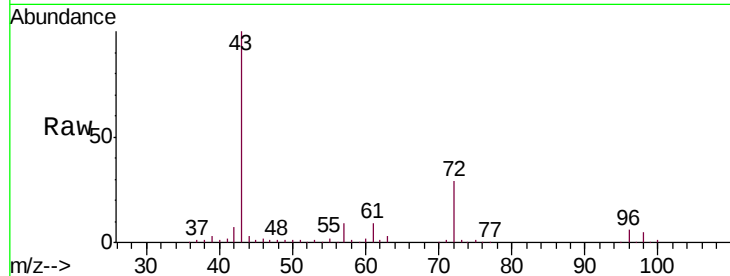
VSTD05039

Tgt Ion: 43 Resp: 188715

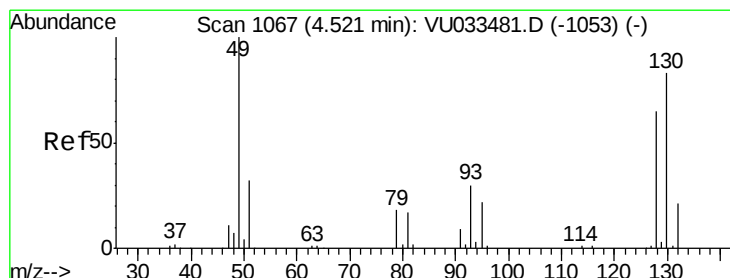
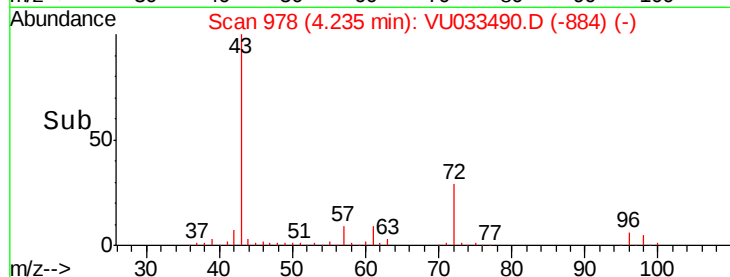
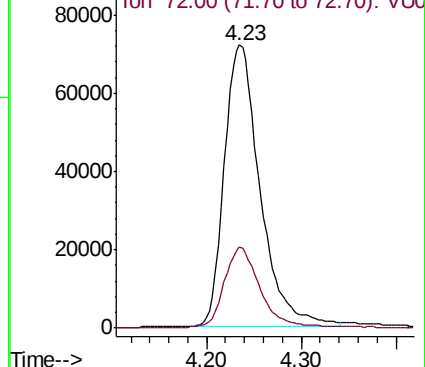
Ion Ratio Lower Upper

43 100

72 29.2 14.1 42.3



Abundance Ion 43.00 (42.70 to 43.70): VU033481.D (-961) (-)



#23

Bromochloromethane

Concen: 49.860 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Tgt Ion: 128 Resp: 64214

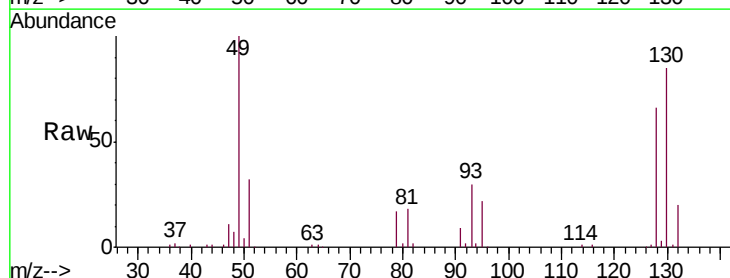
Ion Ratio Lower Upper

128 100

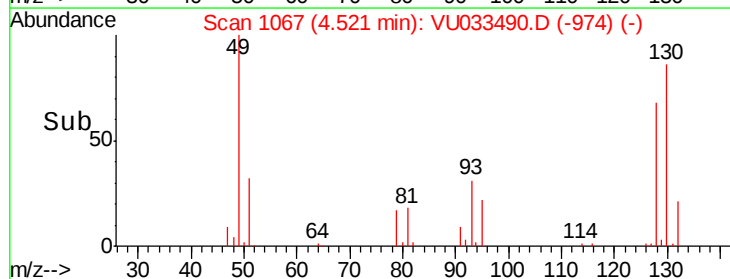
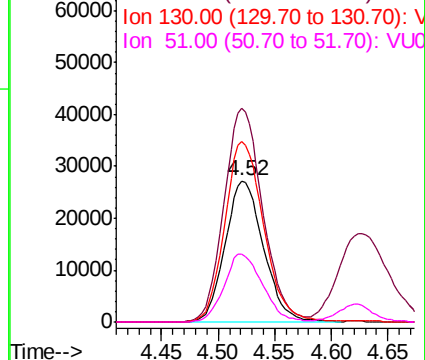
49 151.0 108.0 200.6

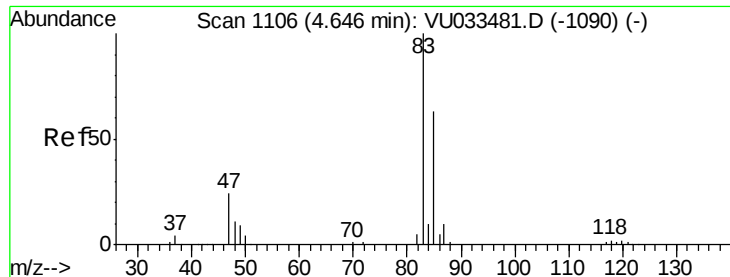
130 127.8 92.9 172.5

51 48.3 40.2 60.4



Abundance Ion 128.00 (127.70 to 128.70): VU033481.D (-1053) (-)

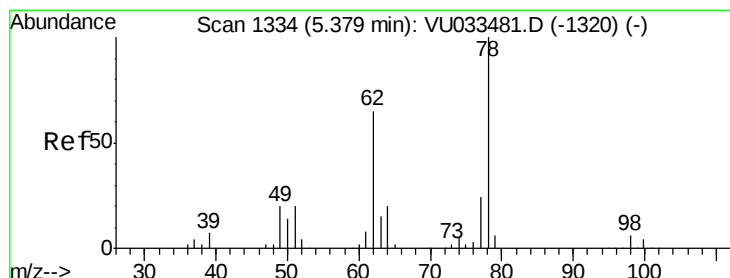
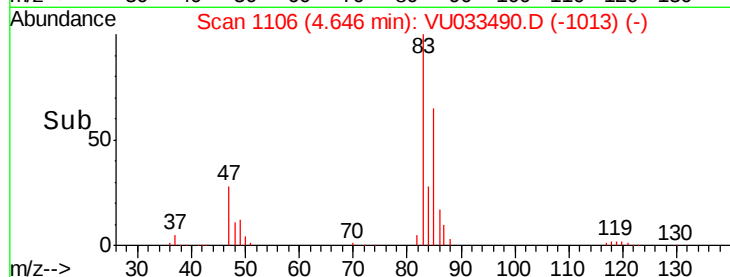
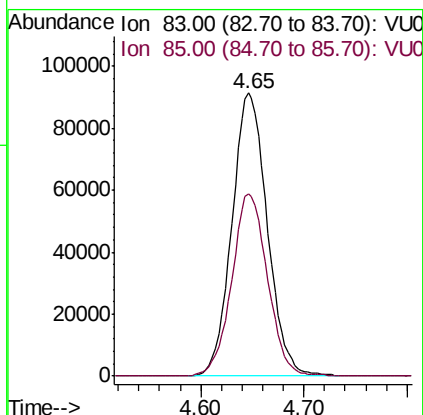
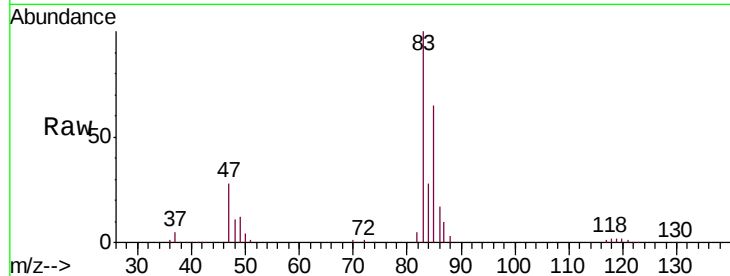




#25
Chloroform
Concen: 49.729 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

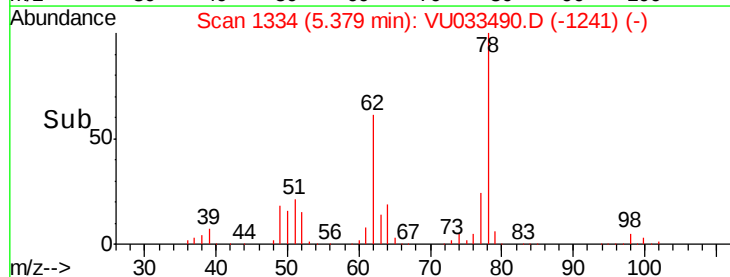
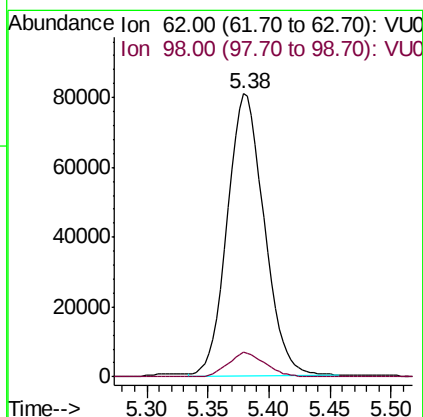
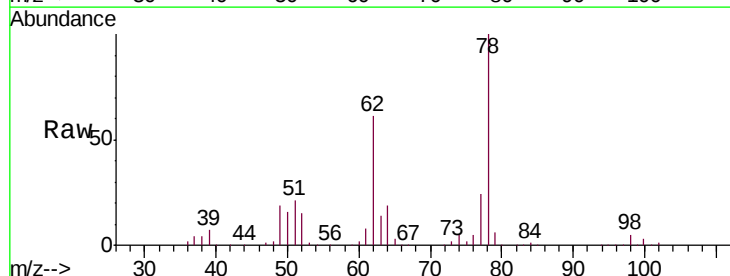
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

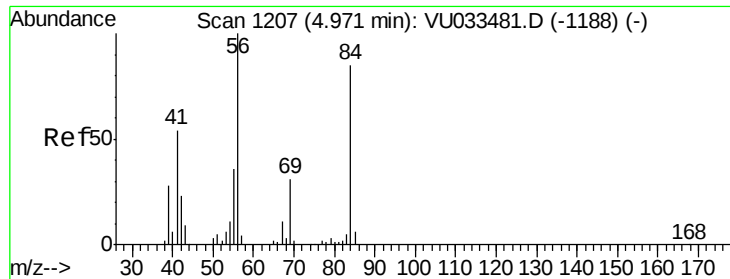
Tgt Ion: 83 Resp: 218100
Ion Ratio Lower Upper
83 100
85 64.5 45.6 84.8



#27
1,2-Dichloroethane
Concen: 49.991 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

Tgt Ion: 62 Resp: 170260
Ion Ratio Lower Upper
62 100
98 8.6 6.7 10.1

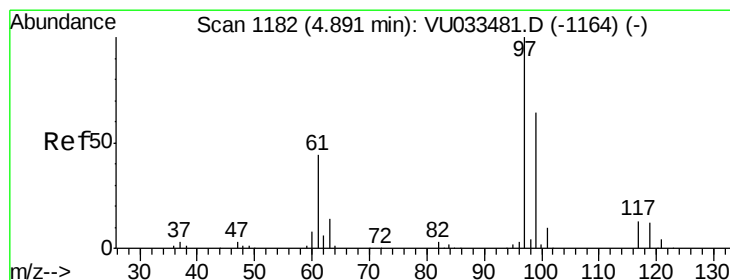
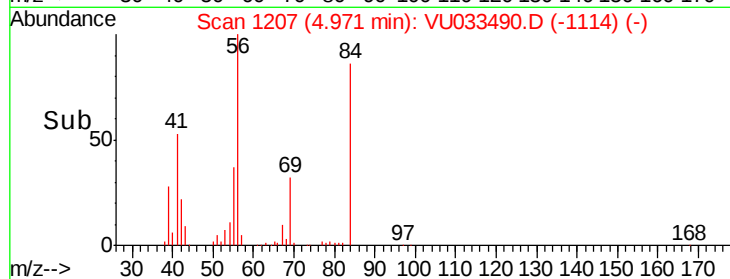
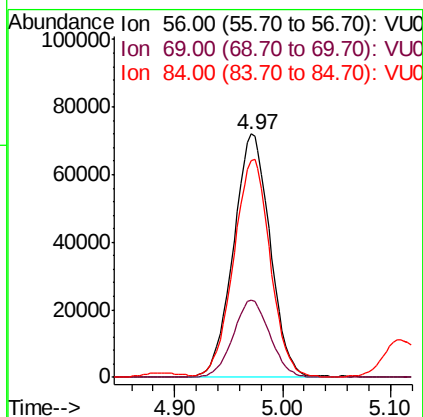
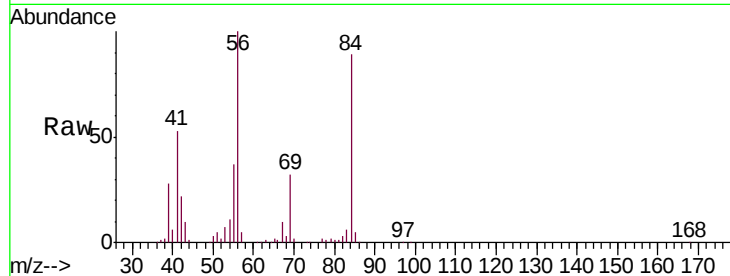




#29
Cyclohexane
Concen: 51.142 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

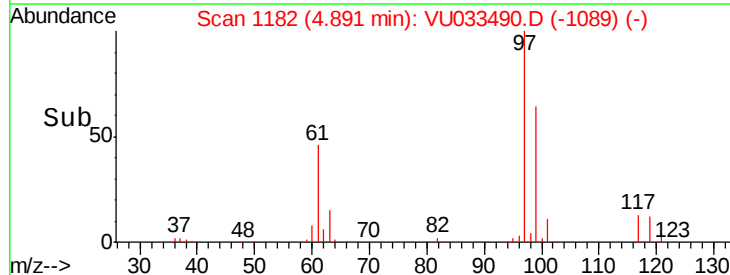
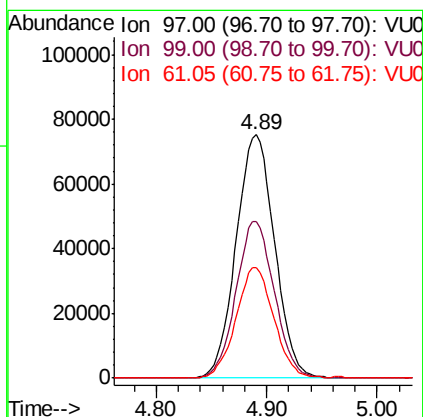
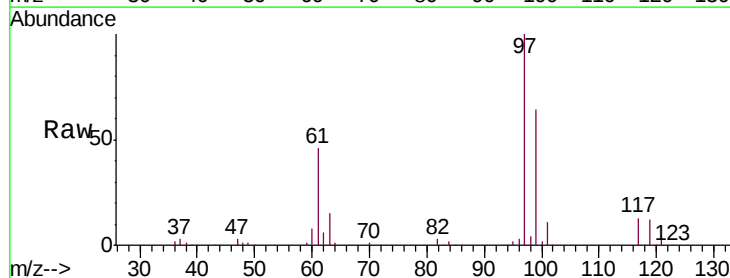
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

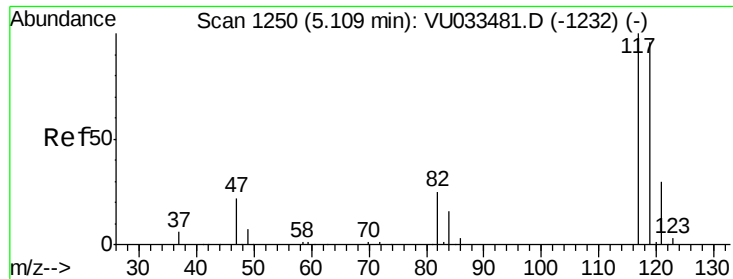
Tgt Ion: 56 Resp: 170362
Ion Ratio Lower Upper
56 100
69 31.8 25.3 37.9
84 89.2 69.6 104.4



#30
1,1,1-Trichloroethane
Concen: 50.447 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

Tgt Ion: 97 Resp: 182123
Ion Ratio Lower Upper
97 100
99 64.1 51.8 77.6
61 44.6 36.2 54.2





#31

Carbon tetrachloride

Concen: 49.843 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

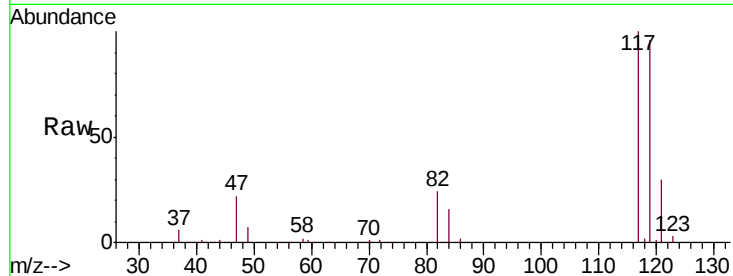
VSTD05039

Tgt Ion:117 Resp: 160178

Ion Ratio Lower Upper

117 100

119 96.8 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.11

80000

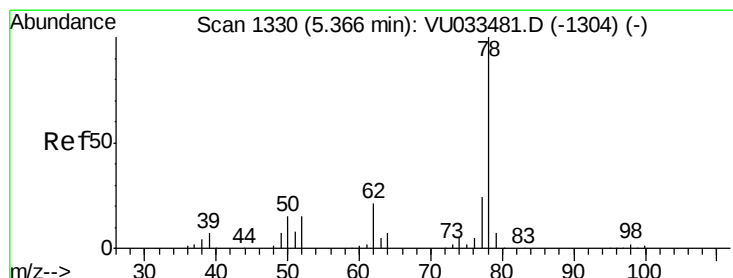
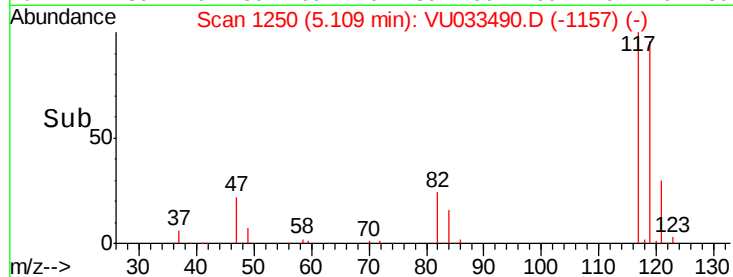
60000

40000

20000

0

Time--> 5.00 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 51.190 ug/L

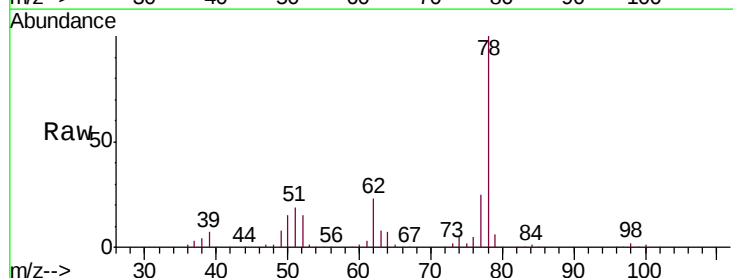
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Tgt Ion: 78 Resp: 463919



Abundance Ion 78.00 (77.70 to 78.70): VU0

250000

200000

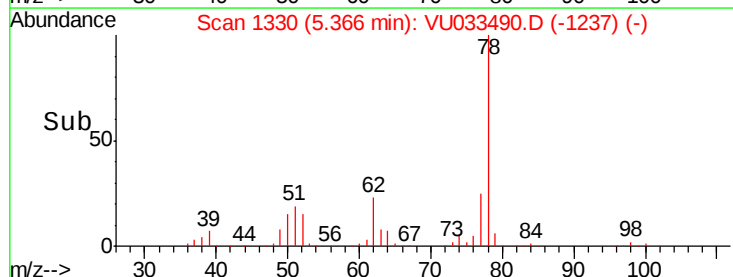
150000

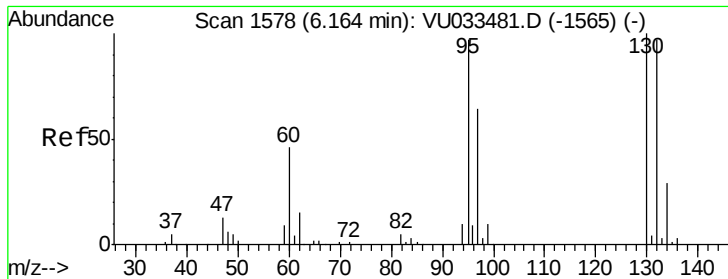
100000

50000

0

Time--> 5.20 5.30 5.40 5.50

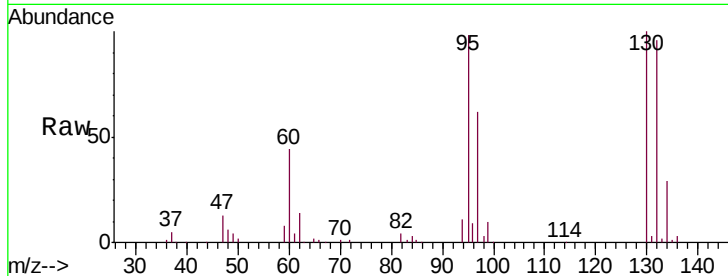




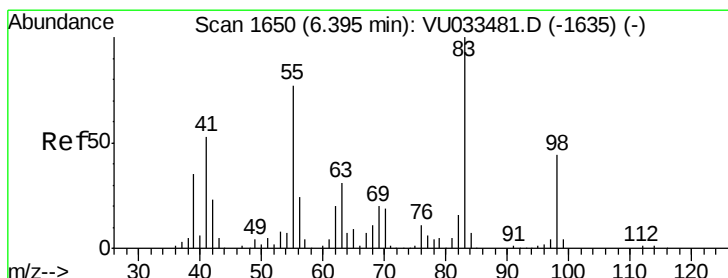
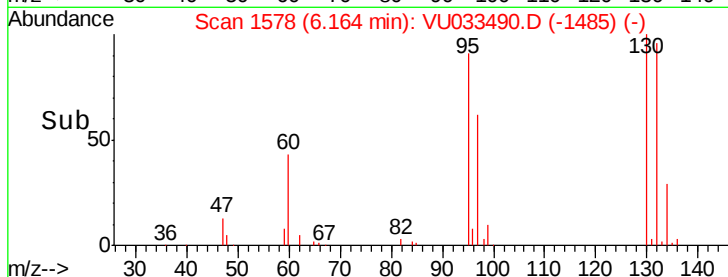
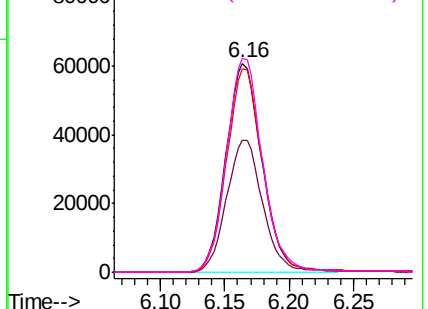
#34
 Trichloroethene
 Concen: 50.087 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tgt Ion: 95 Resp: 118265
 Ion Ratio Lower Upper
 95 100
 97 63.0 45.4 84.2
 132 97.6 67.1 124.5
 130 102.2 71.4 132.6

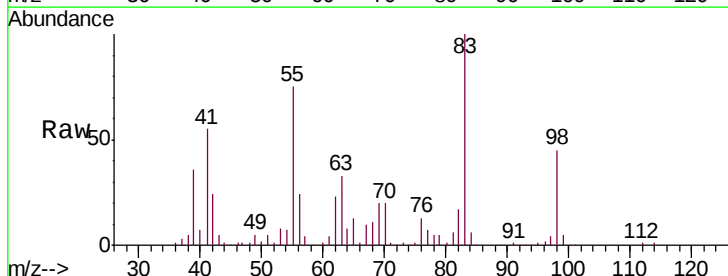


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

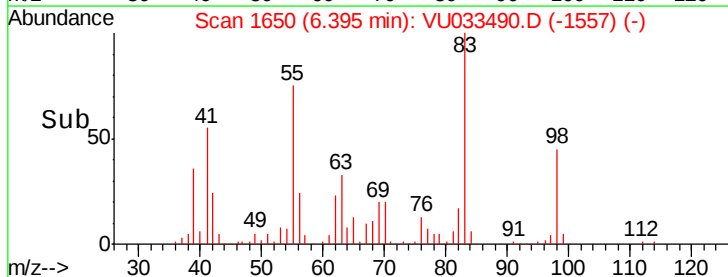
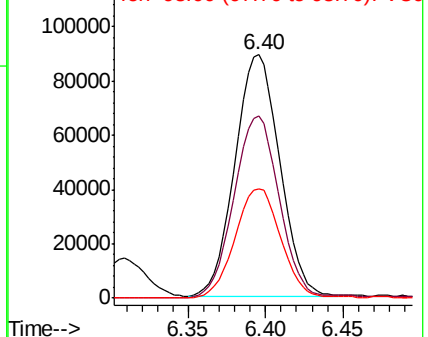


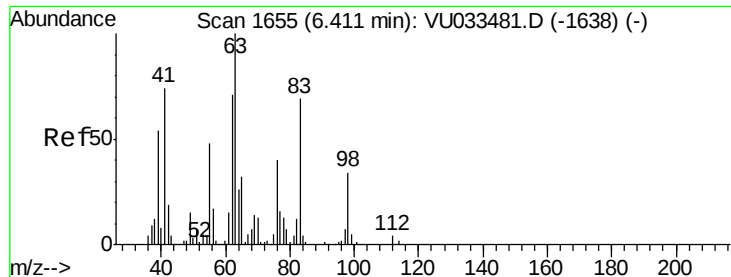
#35
 Methylcyclohexane
 Concen: 50.160 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Tgt Ion: 83 Resp: 180095
 Ion Ratio Lower Upper
 83 100
 55 75.9 62.4 93.6
 98 46.0 37.3 55.9



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

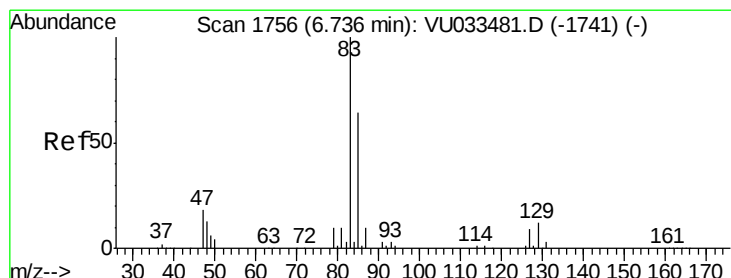
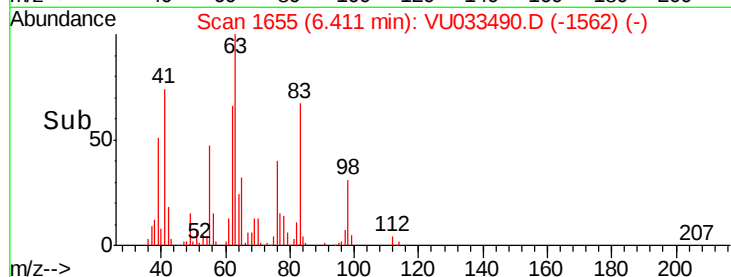
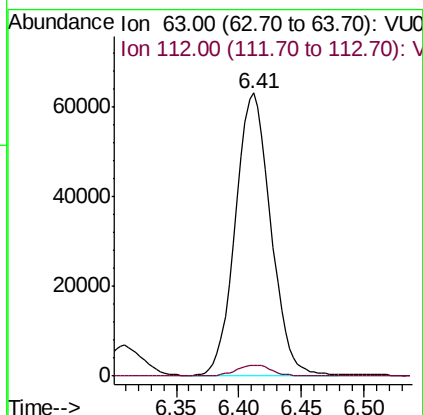
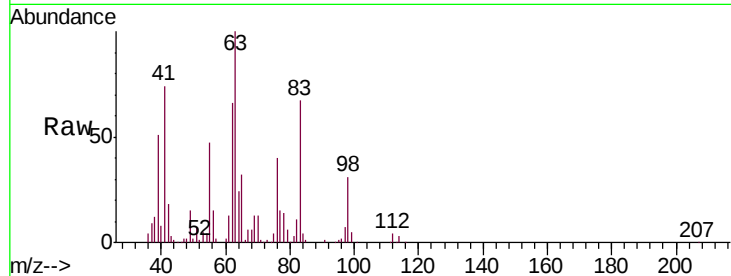




#37
 1,2-Dichloropropane
 Concen: 50.614 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

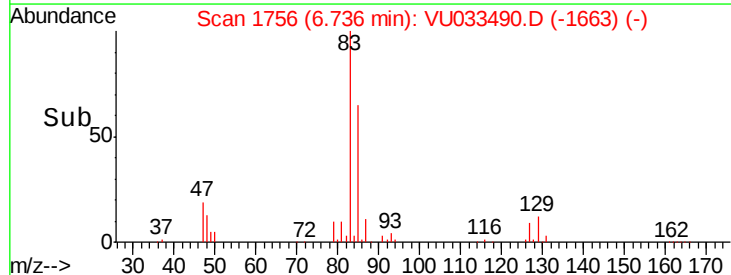
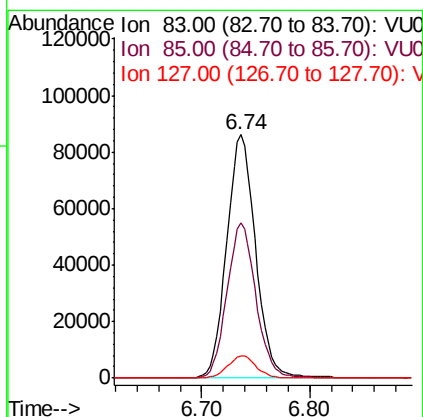
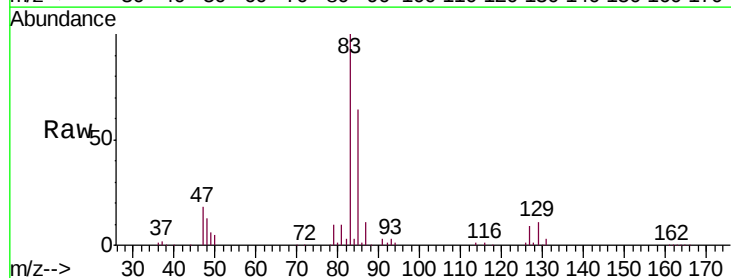
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

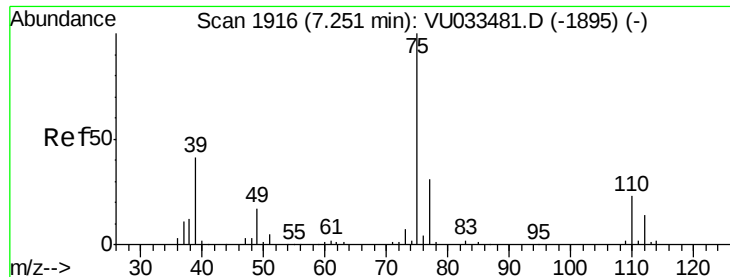
Tgt Ion: 63 Resp: 123368
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.1 4.7



#38
 Bromodichloromethane
 Concen: 50.230 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Tgt Ion: 83 Resp: 161170
 Ion Ratio Lower Upper
 83 100
 85 63.6 45.4 84.4
 127 9.0 7.3 10.9

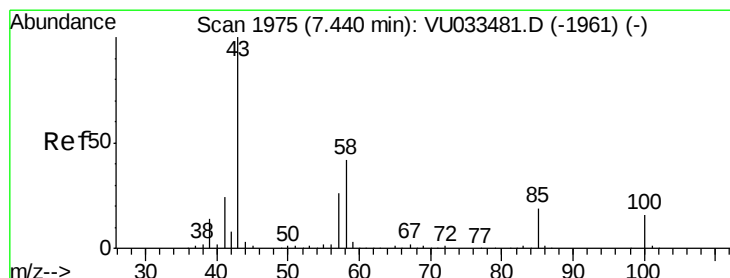
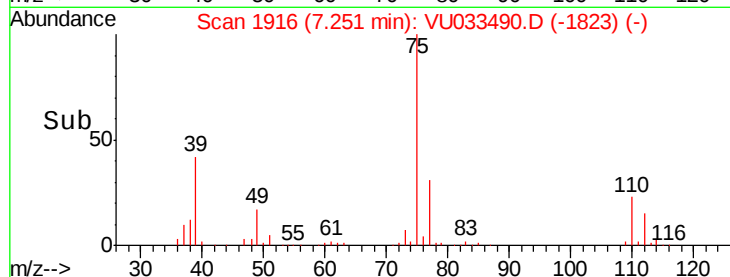
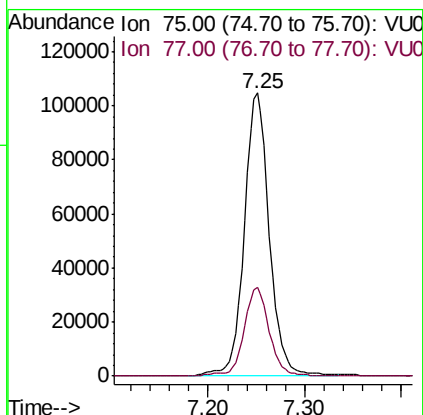
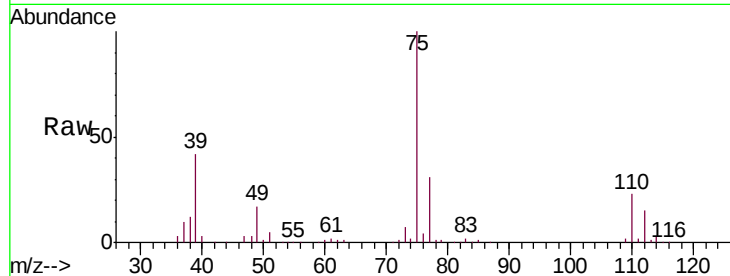




#39
 cis-1,3-Dichloropropene
 Concen: 51.814 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

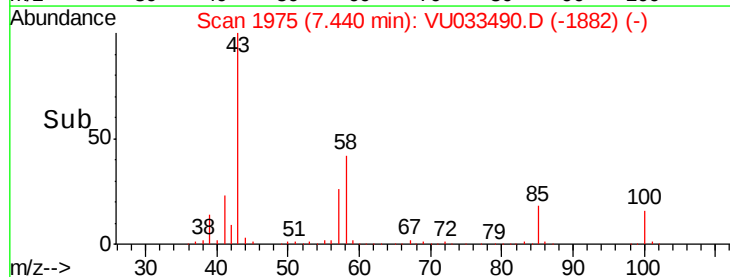
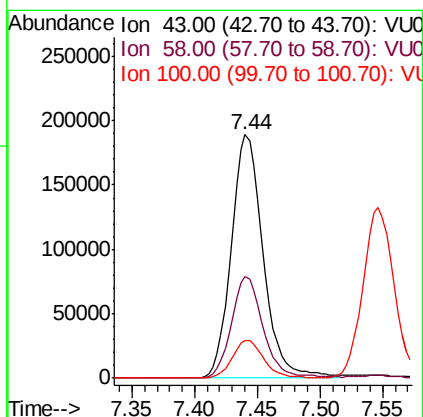
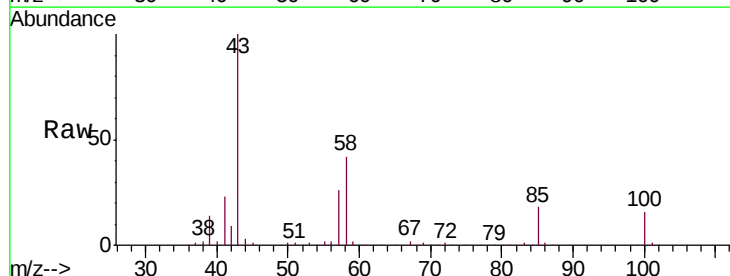
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

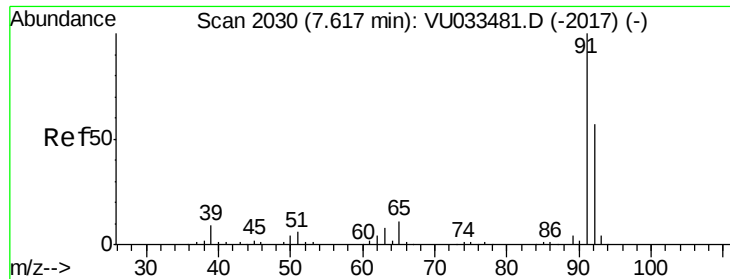
Tgt Ion: 75 Resp: 188324
 Ion Ratio Lower Upper
 75 100
 77 31.2 21.6 40.2



#40
 4-Methyl-2-pentanone
 Concen: 104.231 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Tgt Ion: 43 Resp: 334811
 Ion Ratio Lower Upper
 43 100
 58 41.3 33.4 50.2
 100 15.5 12.3 18.5





#42

Toluene

Concen: 52.906 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

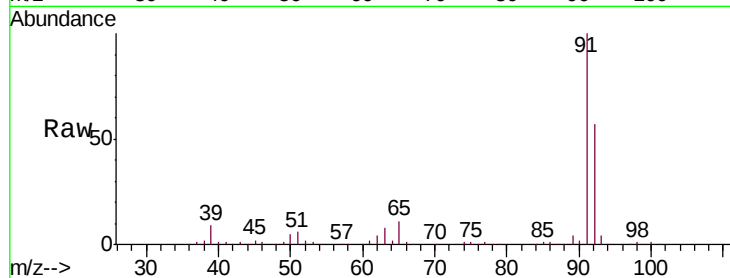
VSTD05039

Tgt Ion: 91 Resp: 515982

Ion Ratio Lower Upper

91 100

92 57.2 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VU033481.D (-2017) (-)

Ion 92.00 (91.70 to 92.70): VU033481.D (-2017) (-)

7.62

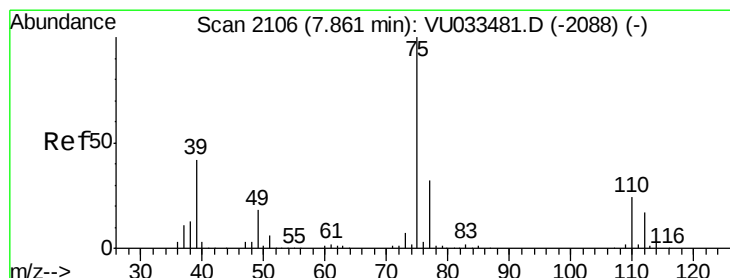
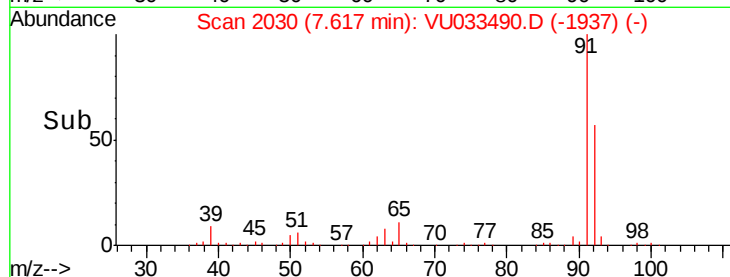
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#44

trans-1,3-Dichloropropene

Concen: 51.084 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033490.D

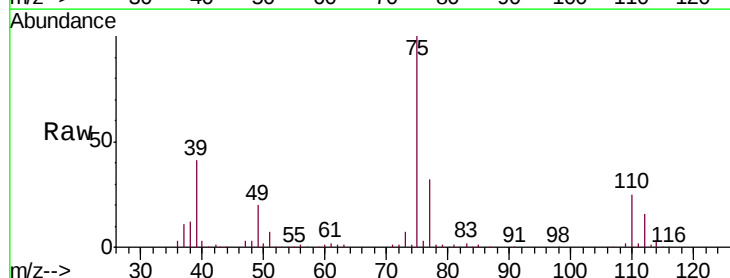
Acq: 30 Jul 2019 13:44

Tgt Ion: 75 Resp: 168524

Ion Ratio Lower Upper

75 100

77 31.7 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU033481.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033481.D (-2088) (-)

7.86

100000

80000

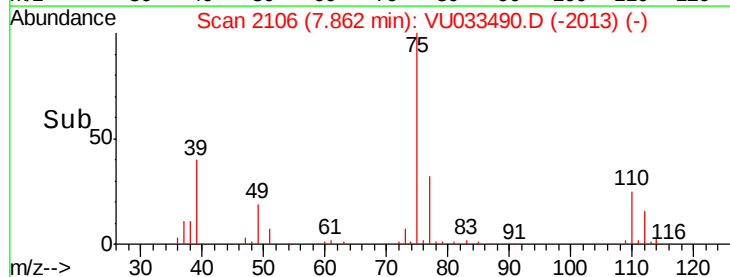
60000

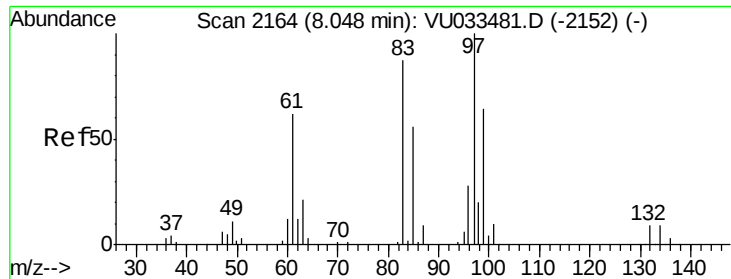
40000

20000

0

Time--> 7.75 7.80 7.85 7.90 7.95

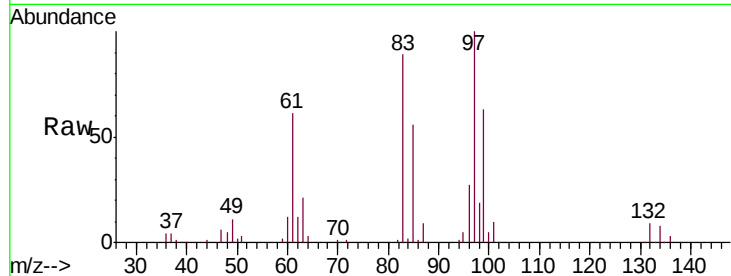




#45
 1,1,2-Trichloroethane
 Concen: 51.640 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tgt Ion:	97	Resp:	120047
Ion	Ratio	Lower	Upper
97	100		
99	63.4	43.3	80.5
83	88.7	61.3	113.9
85	56.0	41.0	76.2



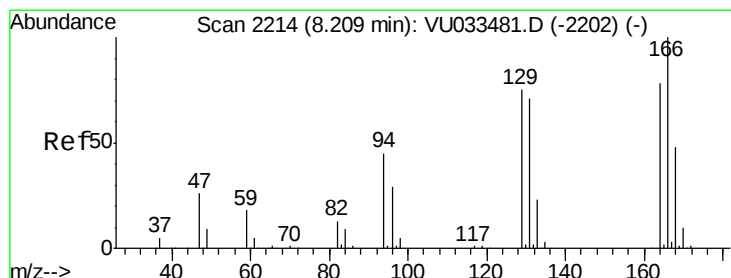
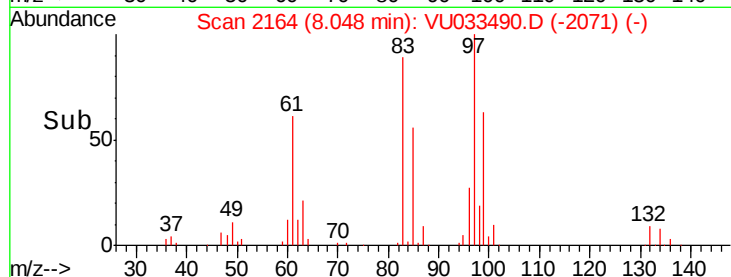
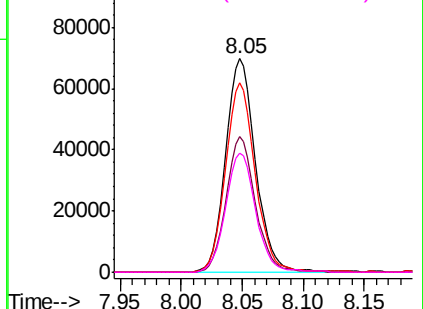
Abundance

Ion 97.00 (96.70 to 97.70): VU033490.D (-2152) (-)

Ion 99.00 (98.70 to 99.70): VU033490.D (-2152) (-)

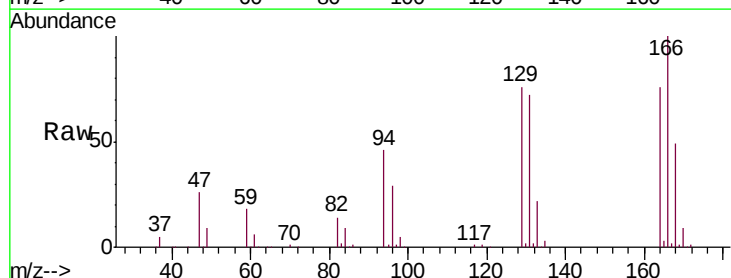
Ion 83.00 (82.70 to 83.70): VU033490.D (-2152) (-)

Ion 85.00 (84.70 to 85.70): VU033490.D (-2152) (-)



#46
 Tetrachloroethene
 Concen: 50.021 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Tgt Ion:	164	Resp:	96115
Ion	Ratio	Lower	Upper
164	100		
129	98.9	66.6	123.8
131	94.8	63.9	118.7
166	130.9	90.5	168.1



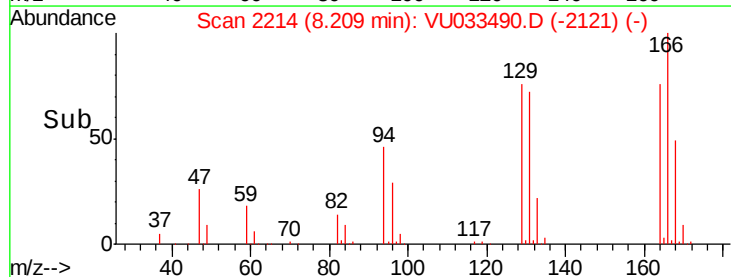
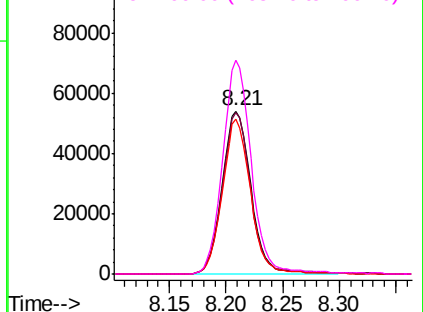
Abundance

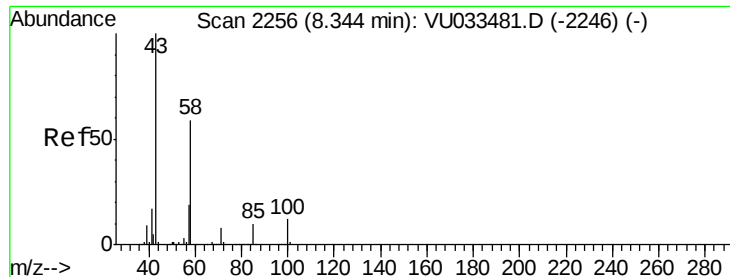
Ion 164.00 (163.70 to 164.70): VU033490.D (-2211) (-)

Ion 129.00 (128.70 to 129.70): VU033490.D (-2211) (-)

Ion 131.00 (130.70 to 131.70): VU033490.D (-2211) (-)

Ion 166.00 (165.70 to 166.70): VU033490.D (-2211) (-)

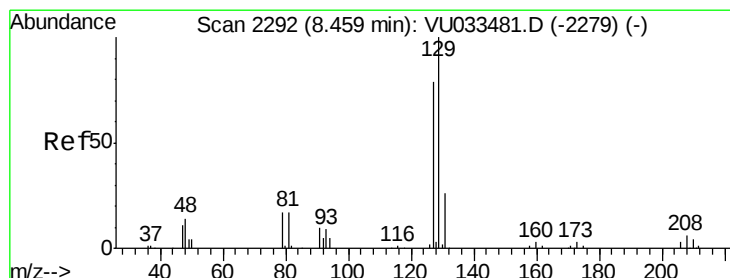
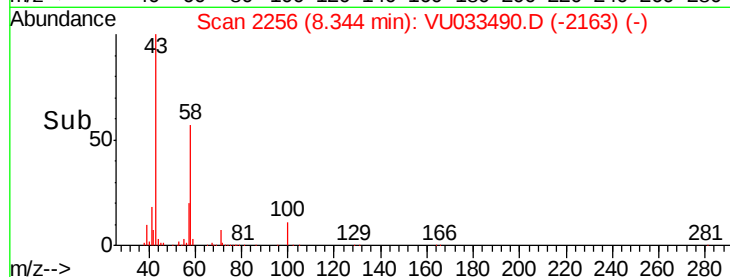
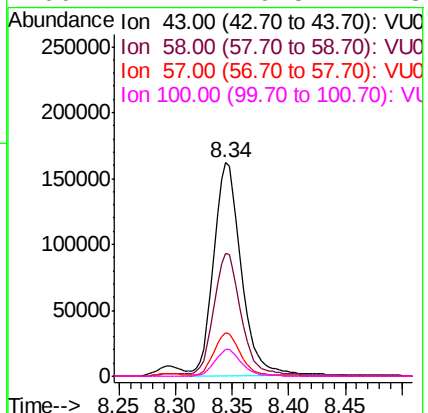
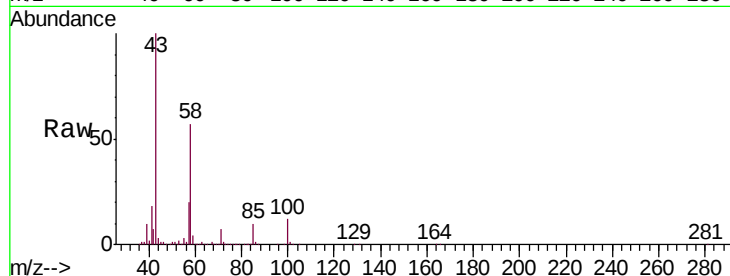




#48
2-Hexanone
Concen: 104.624 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

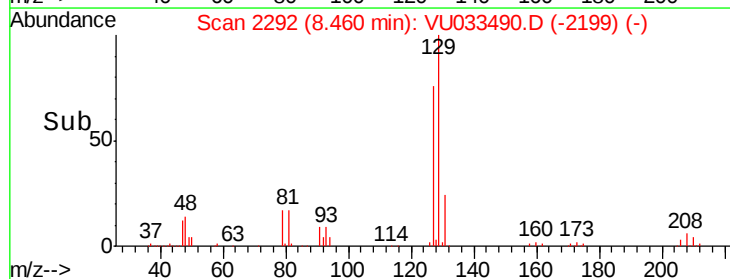
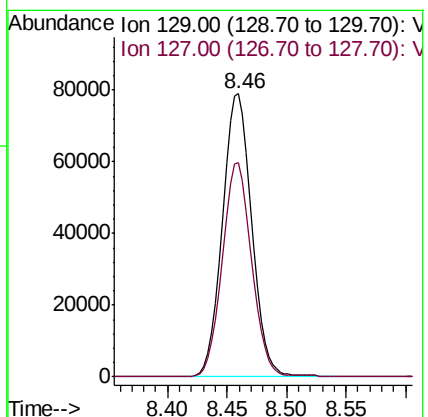
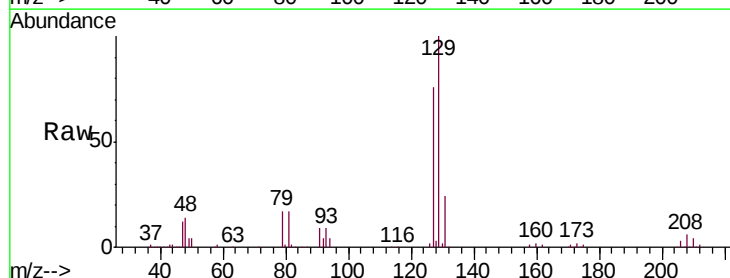
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

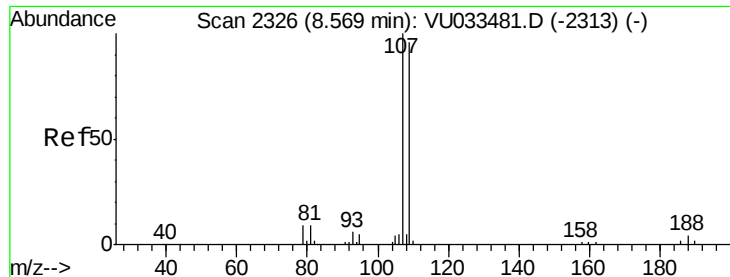
Tgt Ion:	43	Resp:	273794
Ion	Ratio	Lower	Upper
43	100		
58	57.1	46.6	69.8
57	19.8	16.0	24.0
100	12.1	9.5	14.3



#49
Dibromochloromethane
Concen: 51.851 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

Tgt Ion:	129	Resp:	134963
Ion	Ratio	Lower	Upper
129	100		
127	75.8	54.5	101.1

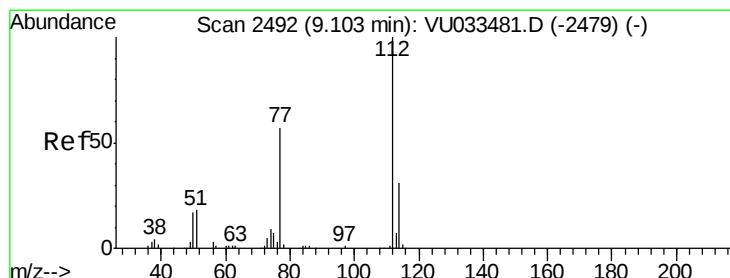
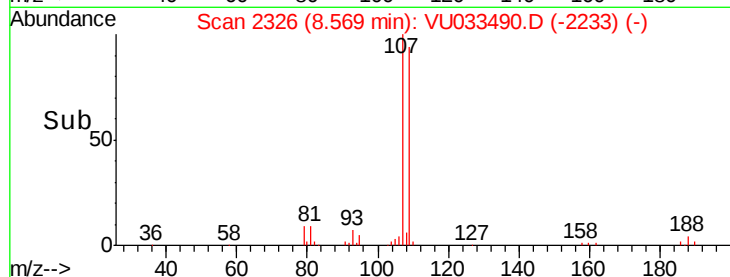
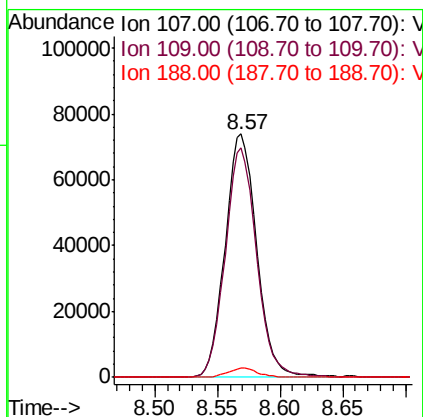
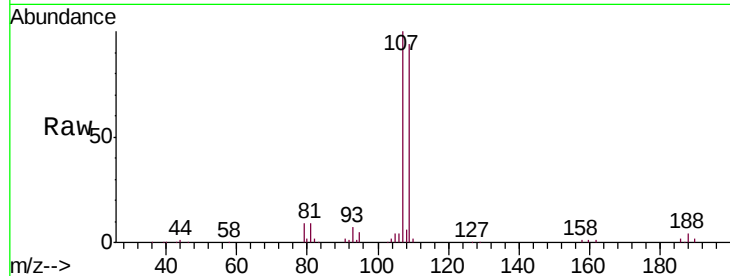




#50
1,2-Dibromoethane
Concen: 51.284 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

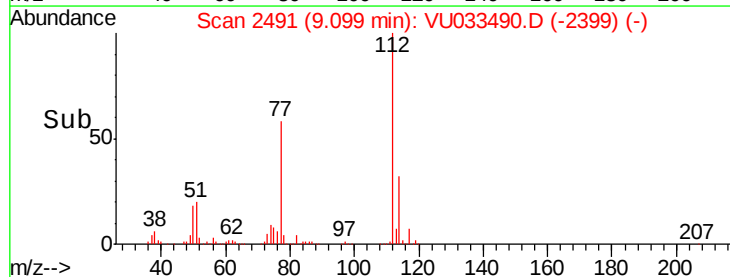
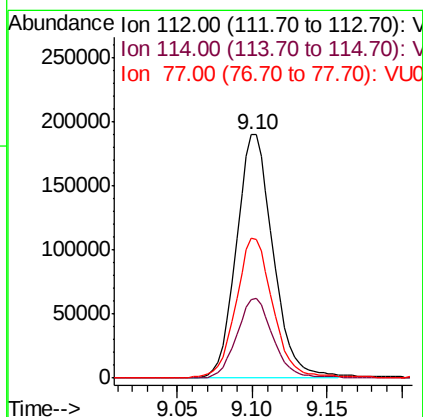
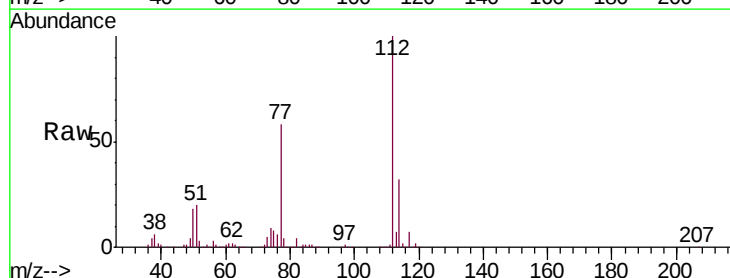
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

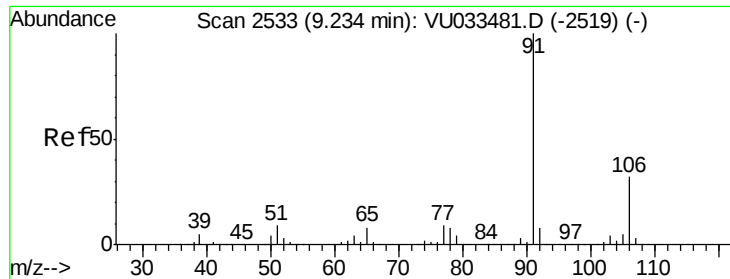
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.3	64.7	120.1
188	3.8	2.8	4.2



#51
Chlorobenzene
Concen: 50.150 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	21.9	40.7
77	57.6	46.1	69.1





#52

Ethylbenzene

Concen: 51.961 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

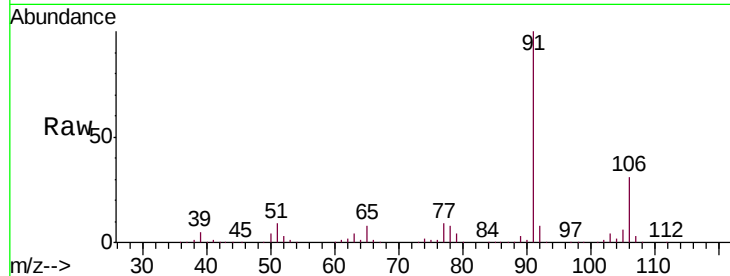
VSTD05039

Tgt Ion: 91 Resp: 549334

Ion Ratio Lower Upper

91 100

106 31.0 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU033481.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033481.D (-2519) (-)

9.23

300000

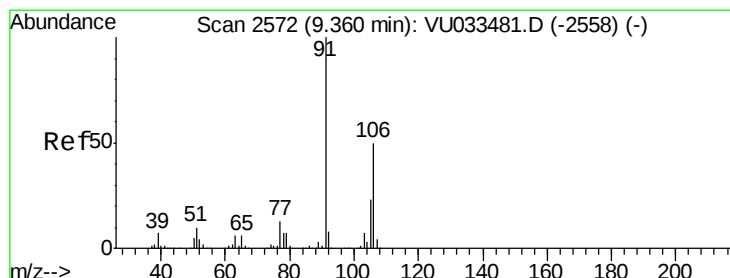
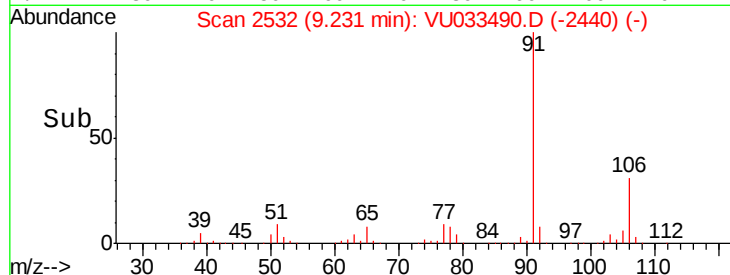
200000

100000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 53.175 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033490.D

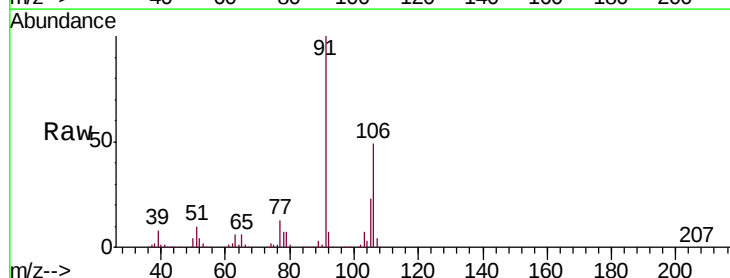
Acq: 30 Jul 2019 13:44

Tgt Ion: 106 Resp: 211400

Ion Ratio Lower Upper

106 100

91 202.8 140.7 261.3



Abundance Ion 106.00 (105.70 to 106.70): VU033481.D (-2558) (-)

Ion 91.00 (90.70 to 91.70): VU033481.D (-2558) (-)

9.36

300000

250000

200000

150000

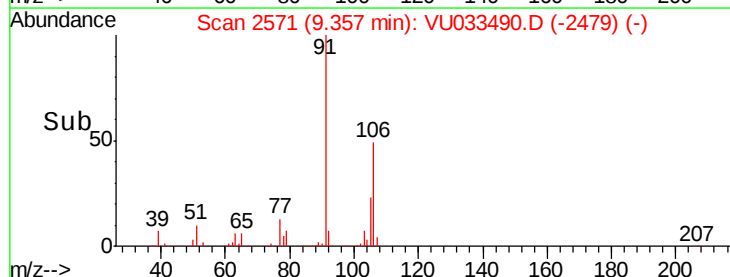
100000

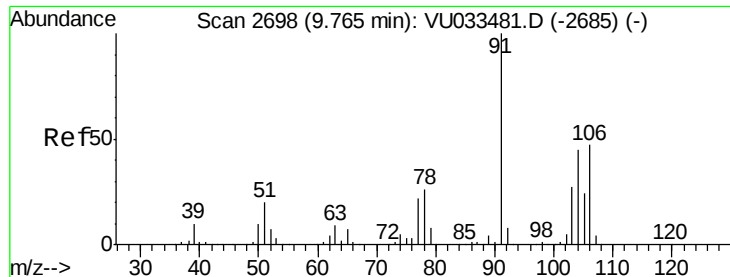
50000

0

9.30 9.35 9.40 9.45

Time-->





#54

o-xylene

Concen: 53.627 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

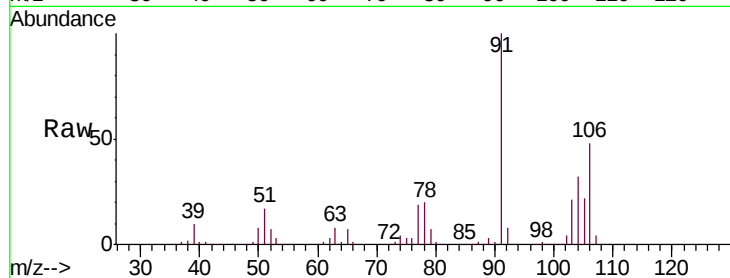
VSTD05039

Tgt Ion:106 Resp: 209038

Ion Ratio Lower Upper

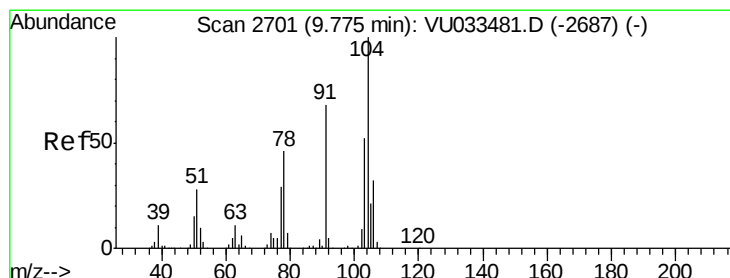
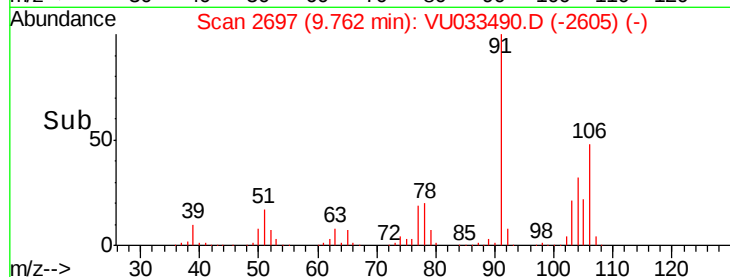
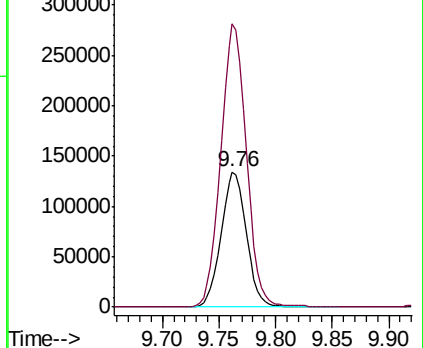
106 100

91 209.3 151.1 280.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.139 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033490.D

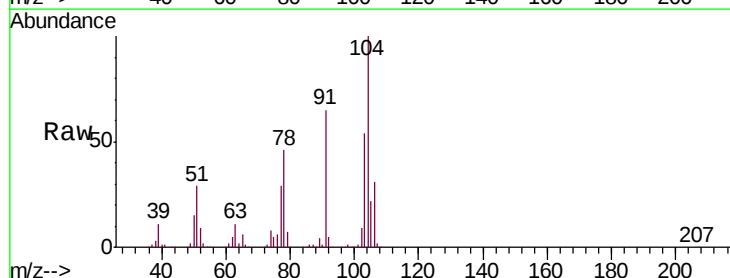
Acq: 30 Jul 2019 13:44

Tgt Ion:104 Resp: 358107

Ion Ratio Lower Upper

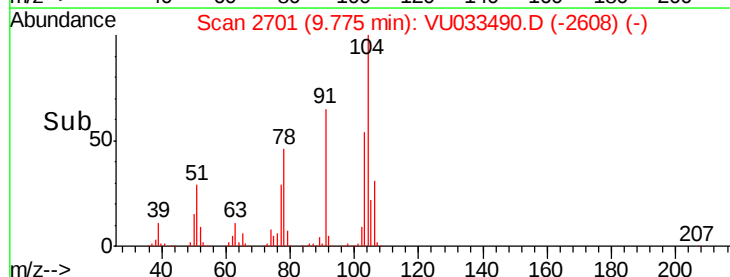
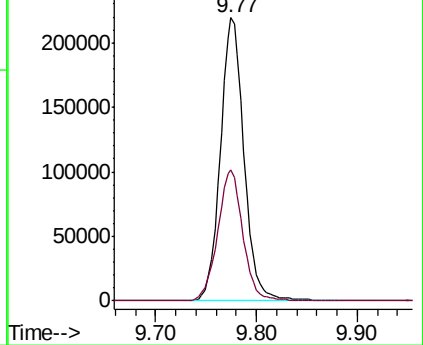
104 100

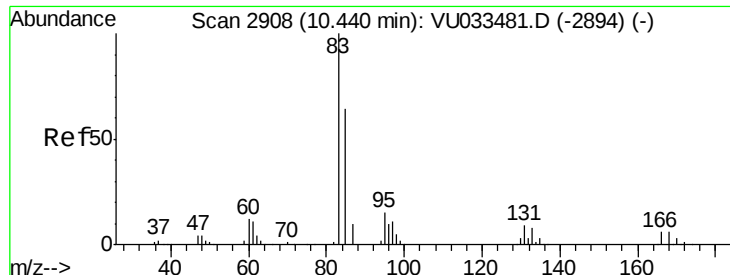
78 46.3 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 50.545 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

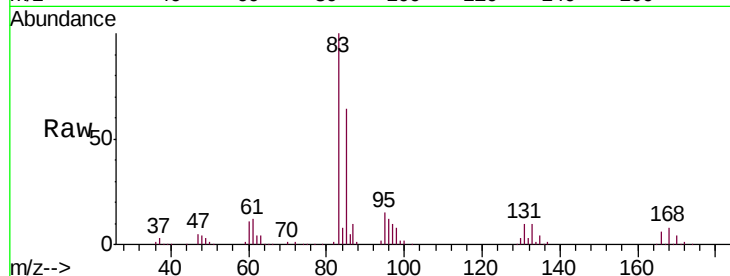
Tgt Ion: 83 Resp: 208890

Ion Ratio Lower Upper

83 100

85 63.8 45.9 85.3

131 9.5 7.8 11.8

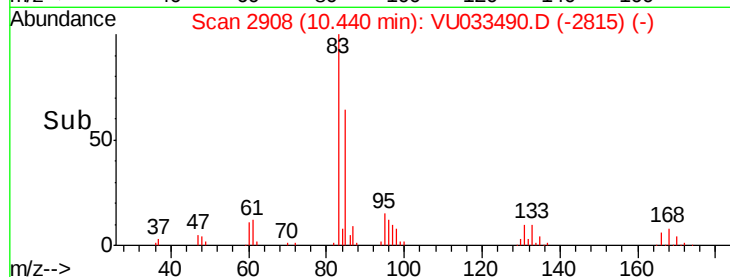


Abundance Ion 83.00 (82.70 to 83.70): VU033481.D (-2894) (-)

Ion 85.00 (84.70 to 85.70): VU033481.D (-2894) (-)

Ion 131.00 (130.70 to 131.70): VU033481.D (-2894) (-)

Time-->

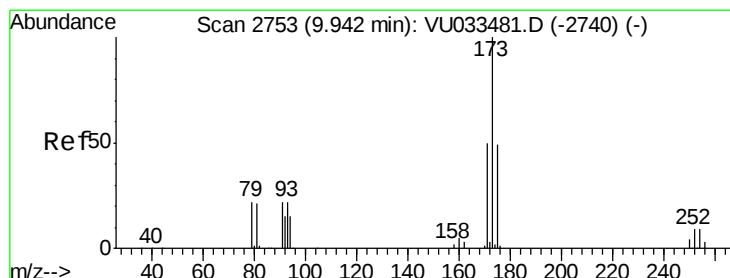


Abundance Ion 83.00 (82.70 to 83.70): VU033490.D (-2815) (-)

Ion 85.00 (84.70 to 85.70): VU033490.D (-2815) (-)

Ion 131.00 (130.70 to 131.70): VU033490.D (-2815) (-)

Time-->



#59

Bromoform

Concen: 49.072 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

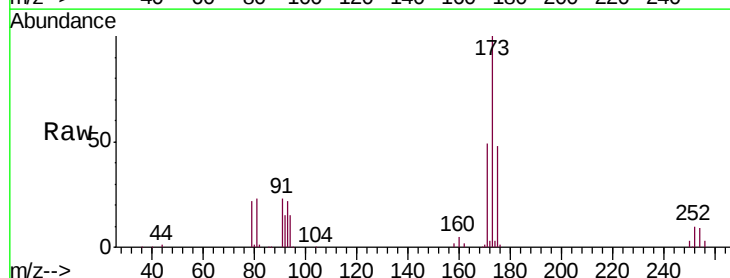
Tgt Ion: 173 Resp: 99077

Ion Ratio Lower Upper

173 100

175 49.2 38.1 57.1

254 9.1 7.3 10.9

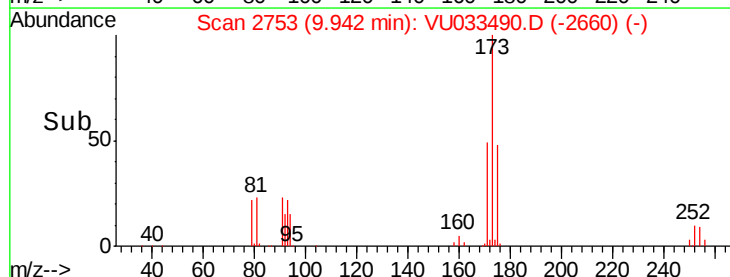


Abundance Ion 173.00 (172.70 to 173.70): VU033481.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033481.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033481.D (-2740) (-)

Time-->

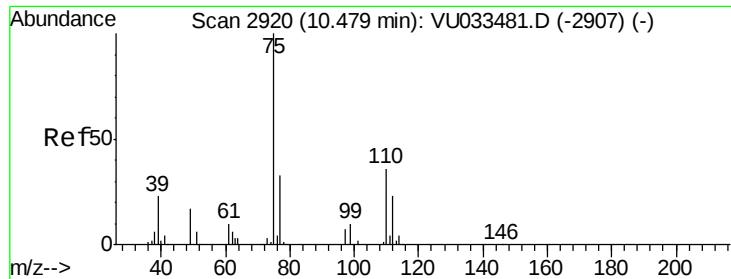


Abundance Ion 173.00 (172.70 to 173.70): VU033490.D (-2660) (-)

Ion 175.00 (174.70 to 175.70): VU033490.D (-2660) (-)

Ion 254.00 (253.70 to 254.70): VU033490.D (-2660) (-)

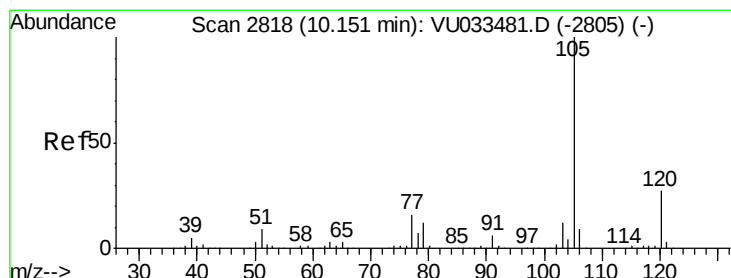
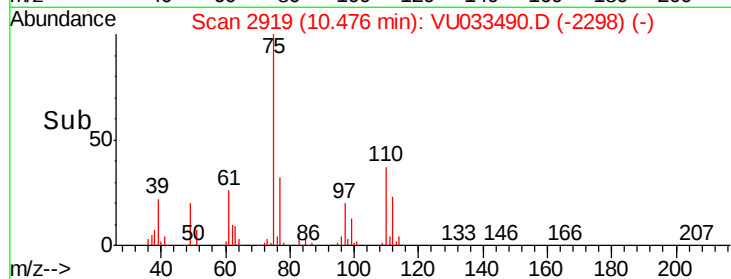
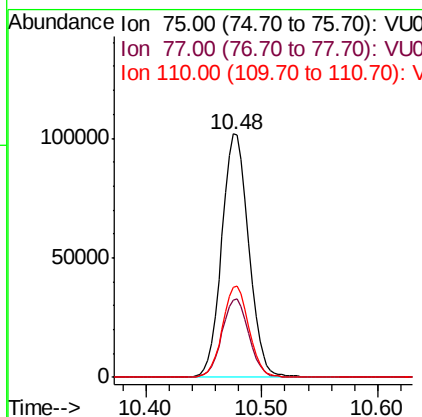
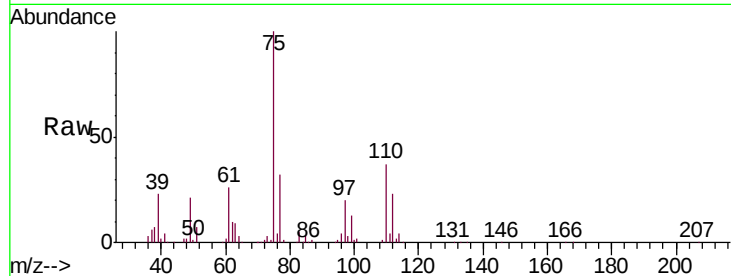
Time-->



#60
 1,2,3-Trichloropropane
 Concen: 49.998 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

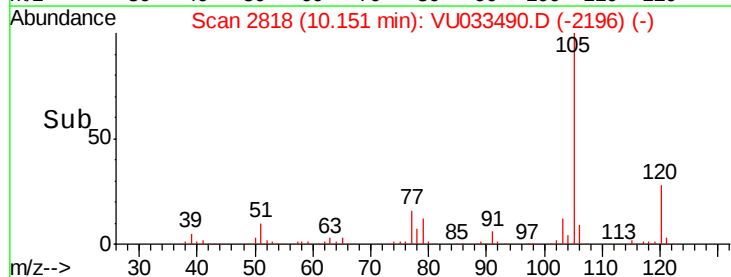
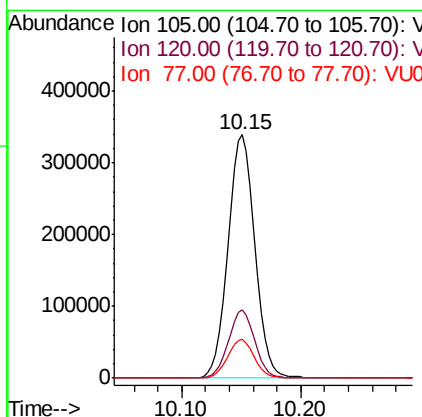
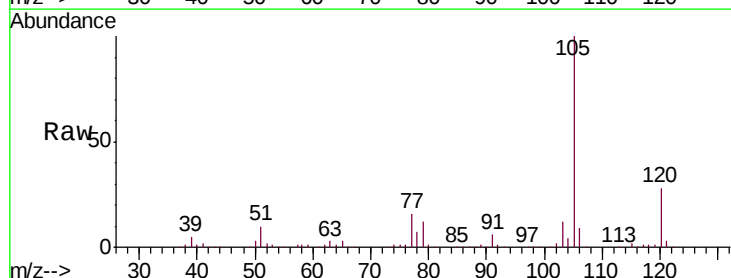
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

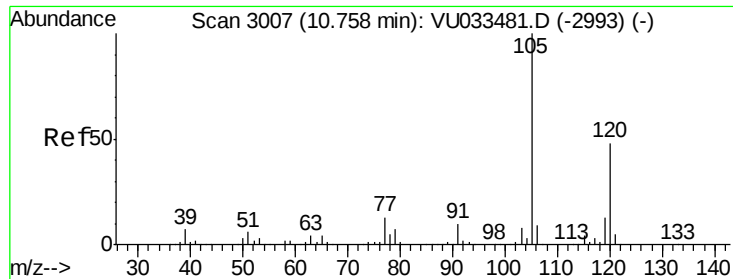
Tgt Ion: 75 Resp: 164408
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.9 38.9
 110 36.4 30.2 45.4



#61
 Isopropylbenzene
 Concen: 51.241 ug/L
 RT: 10.15 min Scan# 2818
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Tgt Ion: 105 Resp: 529742
 Ion Ratio Lower Upper
 105 100
 120 27.3 21.7 32.5
 77 15.8 12.6 19.0





#62

1,3,5-Trimethylbenzene

Concen: 53.366 ug/L

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

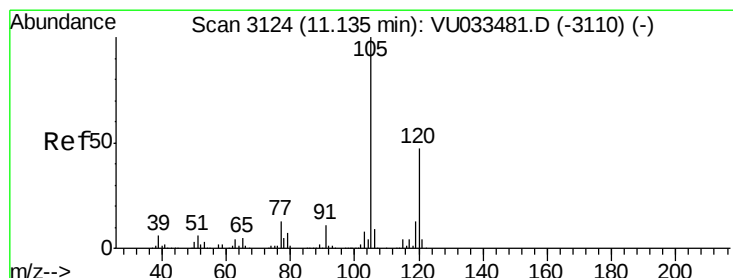
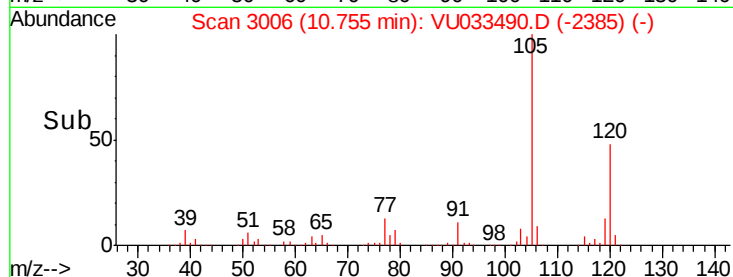
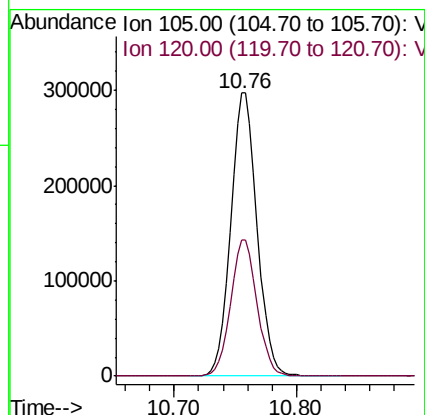
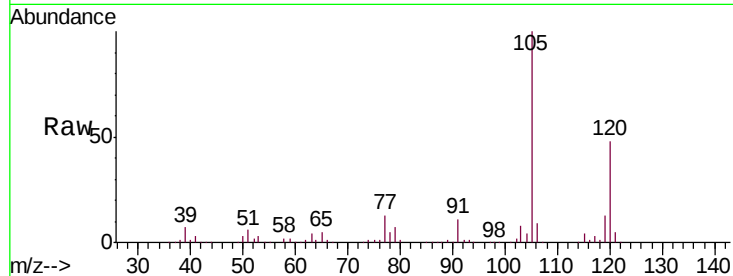
VSTD05039

Tgt Ion:105 Resp: 447033

Ion Ratio Lower Upper

105 100

120 48.4 39.0 58.6



#63

1,2,4-Trimethylbenzene

Concen: 53.677 ug/L

RT: 11.13 min Scan# 3123

Delta R.T. -0.00 min

Lab File: VU033490.D

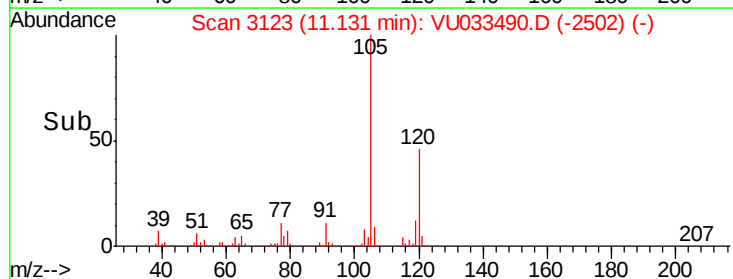
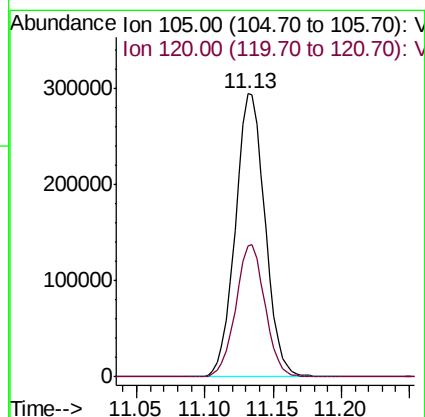
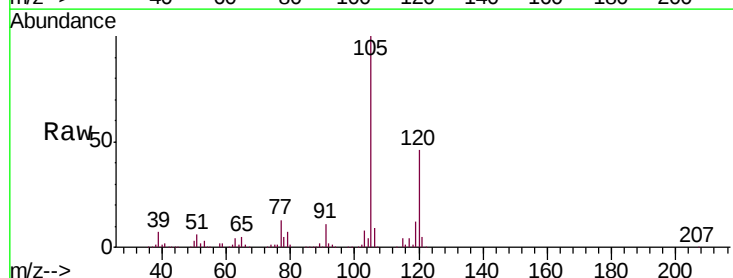
Acq: 30 Jul 2019 13:44

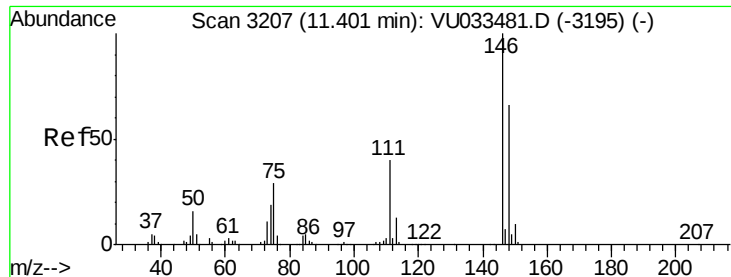
Tgt Ion:105 Resp: 445931

Ion Ratio Lower Upper

105 100

120 46.0 36.6 55.0





#64

1,3-Dichlorobenzene

Concen: 49.050 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

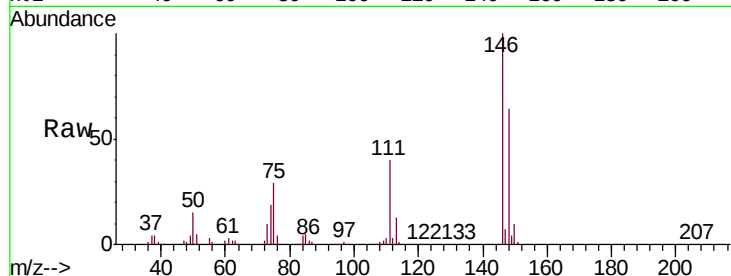
Tgt Ion:146 Resp: 258474

Ion Ratio Lower Upper

146 100

111 39.8 28.2 52.4

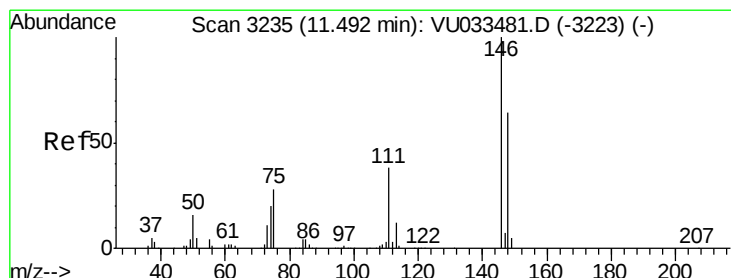
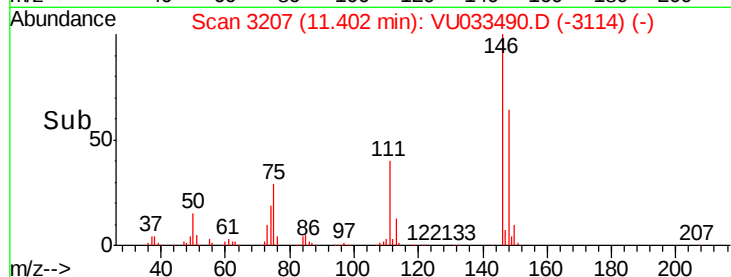
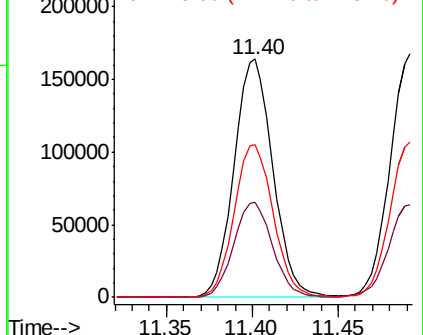
148 64.0 44.4 82.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 48.180 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033490.D

Acq: 30 Jul 2019 13:44

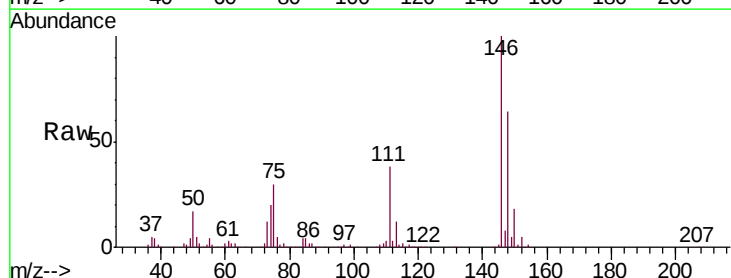
Tgt Ion:146 Resp: 262287

Ion Ratio Lower Upper

146 100

111 38.0 27.0 50.2

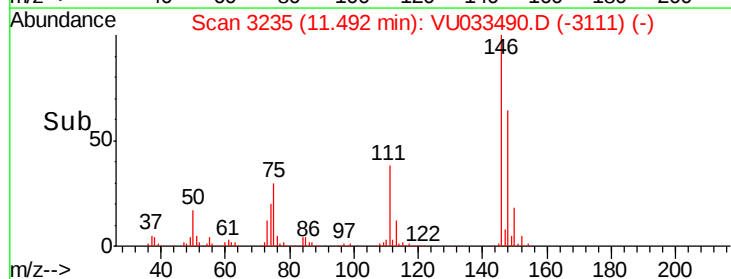
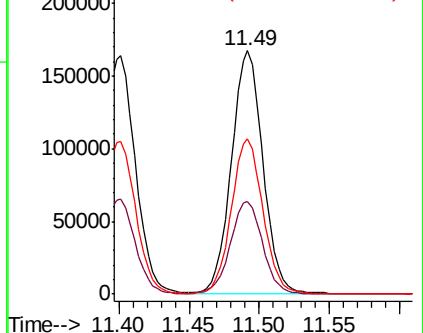
148 63.6 44.7 82.9

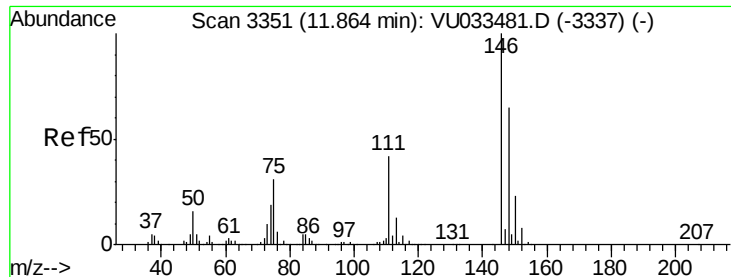


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

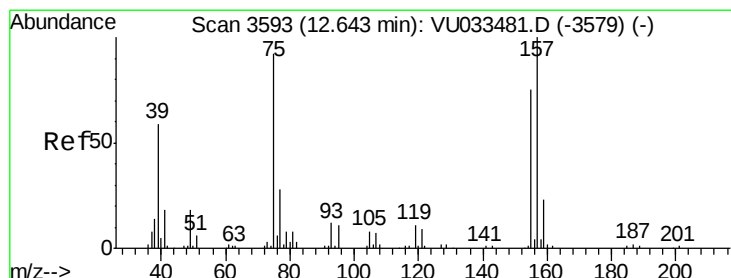
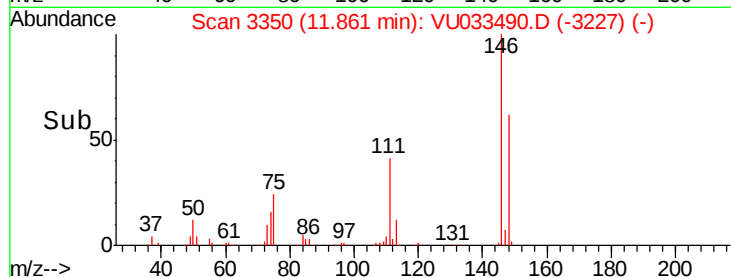
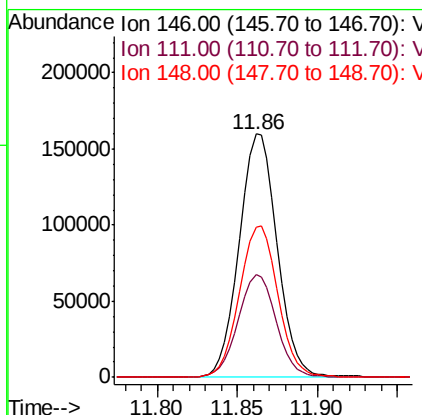
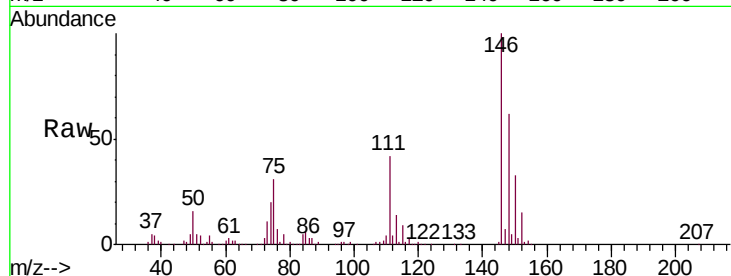




#67
 1,2-Dichlorobenzene
 Concen: 48.904 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

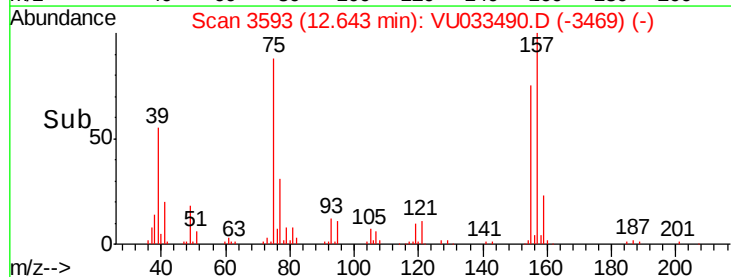
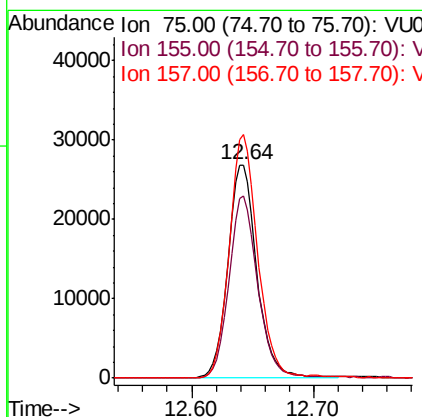
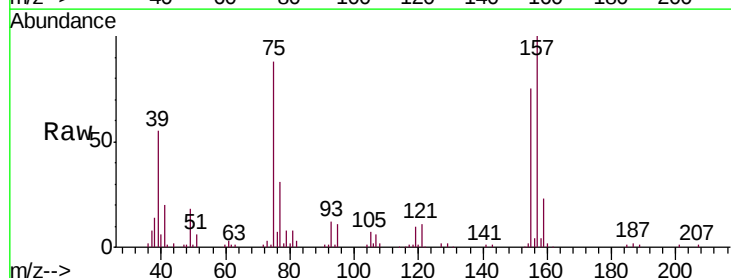
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

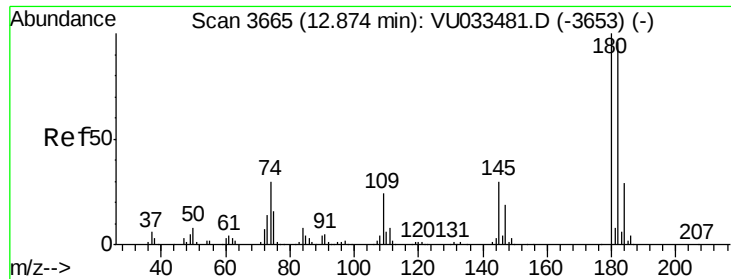
Tgt Ion: 146 Resp: 258197
 Ion Ratio Lower Upper
 146 100
 111 42.0 32.8 49.2
 148 61.9 49.2 73.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 48.969 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Tgt Ion: 75 Resp: 44768
 Ion Ratio Lower Upper
 75 100
 155 85.6 64.8 97.2
 157 114.1 87.1 130.7

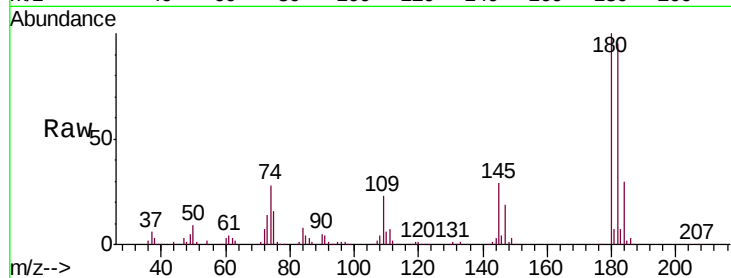




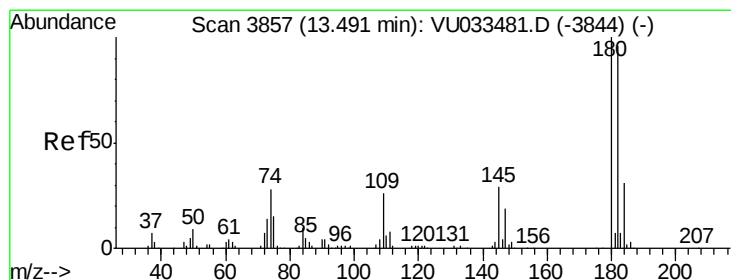
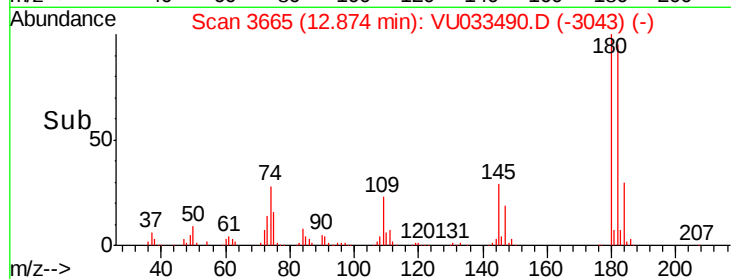
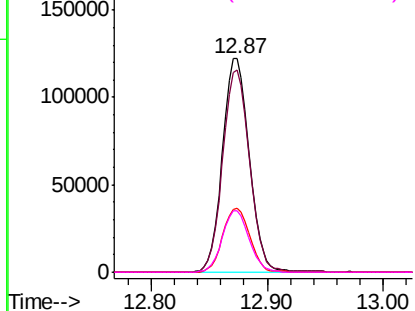
#69
 1,3,5-Trichlorobenzene
 Concen: 48.939 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.2	114.4
184	30.3	24.1	36.1
145	28.8	23.7	35.5

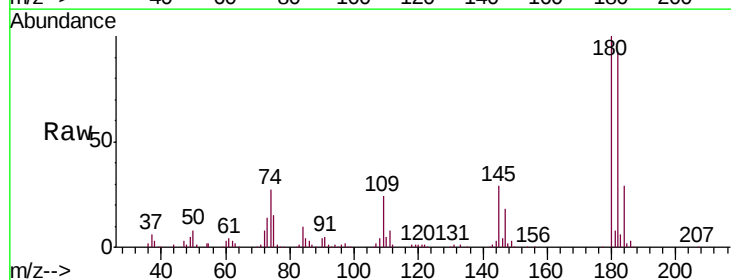


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

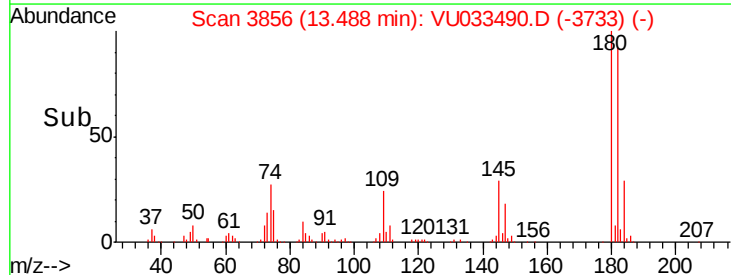
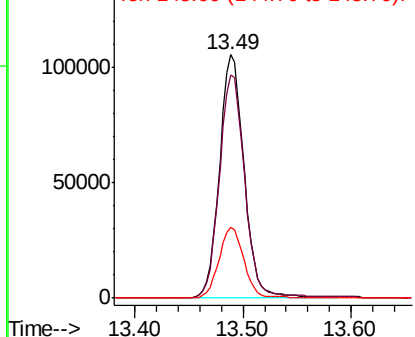


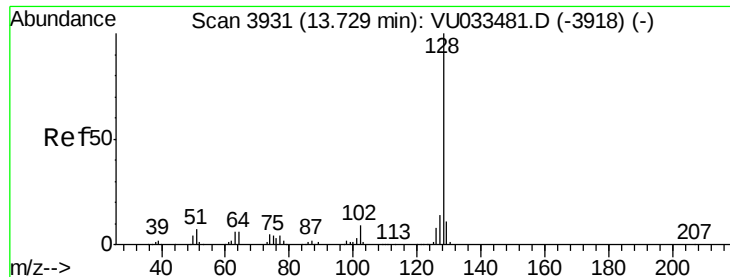
#70
 1,2,4-trichlorobenzene
 Concen: 50.386 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033490.D
 Acq: 30 Jul 2019 13:44

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.2	77.5	116.3
145	29.1	23.9	35.9



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

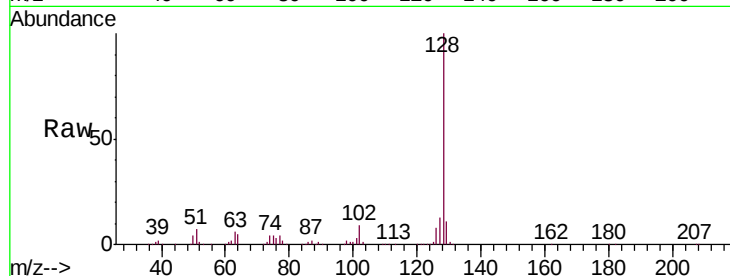




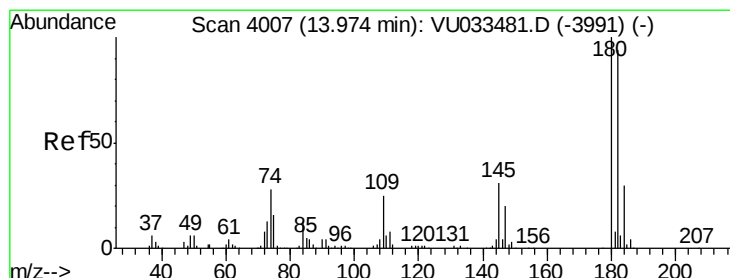
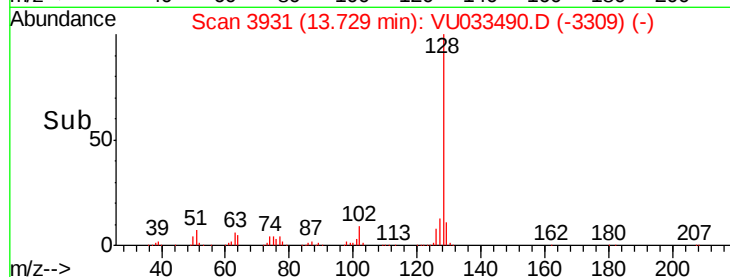
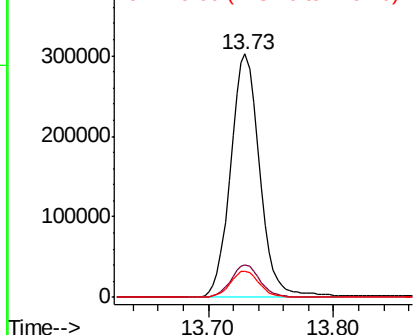
#71
Naphthalene
Concen: 50.631 ug/L
RT: 13.73 min Scan# 3931
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

Tgt Ion:128 Resp: 488892
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 10.7 8.7 13.1

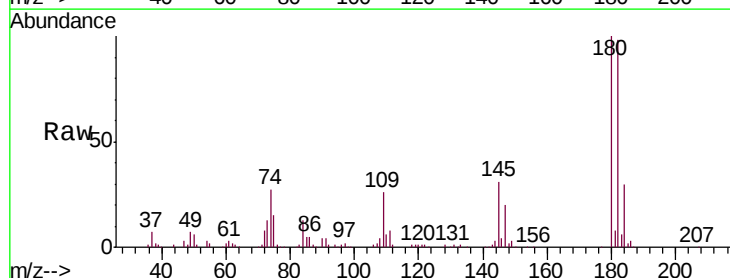


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 49.975 ug/L
RT: 13.97 min Scan# 4007
Delta R.T. 0.00 min
Lab File: VU033490.D
Acq: 30 Jul 2019 13:44

Tgt Ion:180 Resp: 174811
Ion Ratio Lower Upper
180 100
182 97.0 76.4 114.6
145 31.5 24.9 37.3



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

