

Data File : VU033468.D
Acq On : 29 Jul 2019 12:11
Operator : JC/SP
Sample : VSTD01034
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01034

Quant Time: Jul 30 03:45:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 30 03:41:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	302349	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	303564	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	150780	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	27520	9.86	ug/L	0.00
7) Chloroethane-d5	1.67	69	22531	9.78	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	46182	8.55	ug/L	0.00
21) 2-Butanone-d5	4.16	46	28303	17.23	ug/L	0.01
24) Chloroform-d	4.62	84	40146	9.53	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	26417	9.81	ug/L	0.00
32) Benzene-d6	5.32	84	78737	9.34	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	24826	9.46	ug/L	0.00
41) Toluene-d8	7.55	98	71419	8.93	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	11375	8.81	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	17421	15.47	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.41	84	37928	9.78	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.85	152	28181	10.00	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	30682	10.416 ug/L	98
3) Chloromethane	1.32	50	30548	10.261 ug/L	99
5) Vinyl chloride	1.40	62	34589	10.173 ug/L	99
6) Bromomethane	1.62	94	21103	9.879 ug/L	100
8) Chloroethane	1.69	64	22123	10.781 ug/L	100
9) Trichlorofluoromethane	1.87	101	45495	10.206 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	22568	9.722 ug/L	100
12) 1,1-Dichloroethene	2.27	96	20537	8.947 ug/L	90
13) Acetone	2.31	43	31411	20.582 ug/L	98
14) Carbon disulfide	2.46	76	65670	10.312 ug/L	100
15) Methyl Acetate	2.60	43	24951	10.256 ug/L	96
16) Methylene chloride	2.69	84	24248	10.131 ug/L	96
17) trans-1,2-Dichloroethene	2.96	96	21652	10.259 ug/L	96
18) Methyl tert-butyl Ether	2.98	73	60452	9.318 ug/L	97
19) 1,1-Dichloroethane	3.42	63	40679	9.877 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	23158	9.697 ug/L	97
22) 2-Butanone	4.24	43	33220	17.718 ug/L	99
23) Bromochloromethane	4.52	128	13045	10.483 ug/L	95
25) Chloroform	4.65	83	44704	10.309 ug/L	98
27) 1,2-Dichloroethane	5.38	62	33406	9.921 ug/L	100
29) Cyclohexane	4.97	56	31029	9.117 ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	36048	10.162 ug/L	99
31) Carbon tetrachloride	5.11	117	31062	9.824 ug/L	97
33) Benzene	5.37	78	87863	9.661 ug/L	100
34) Trichloroethene	6.17	95	22741	9.807 ug/L	95
35) Methylcyclohexane	6.40	83	33134	9.401 ug/L	98
37) 1,2-Dichloropropane	6.41	63	24222	10.070 ug/L	99
38) Bromodichloromethane	6.74	83	31948	10.258 ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	33501	8.948 ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	57063	17.554 ug/L	97

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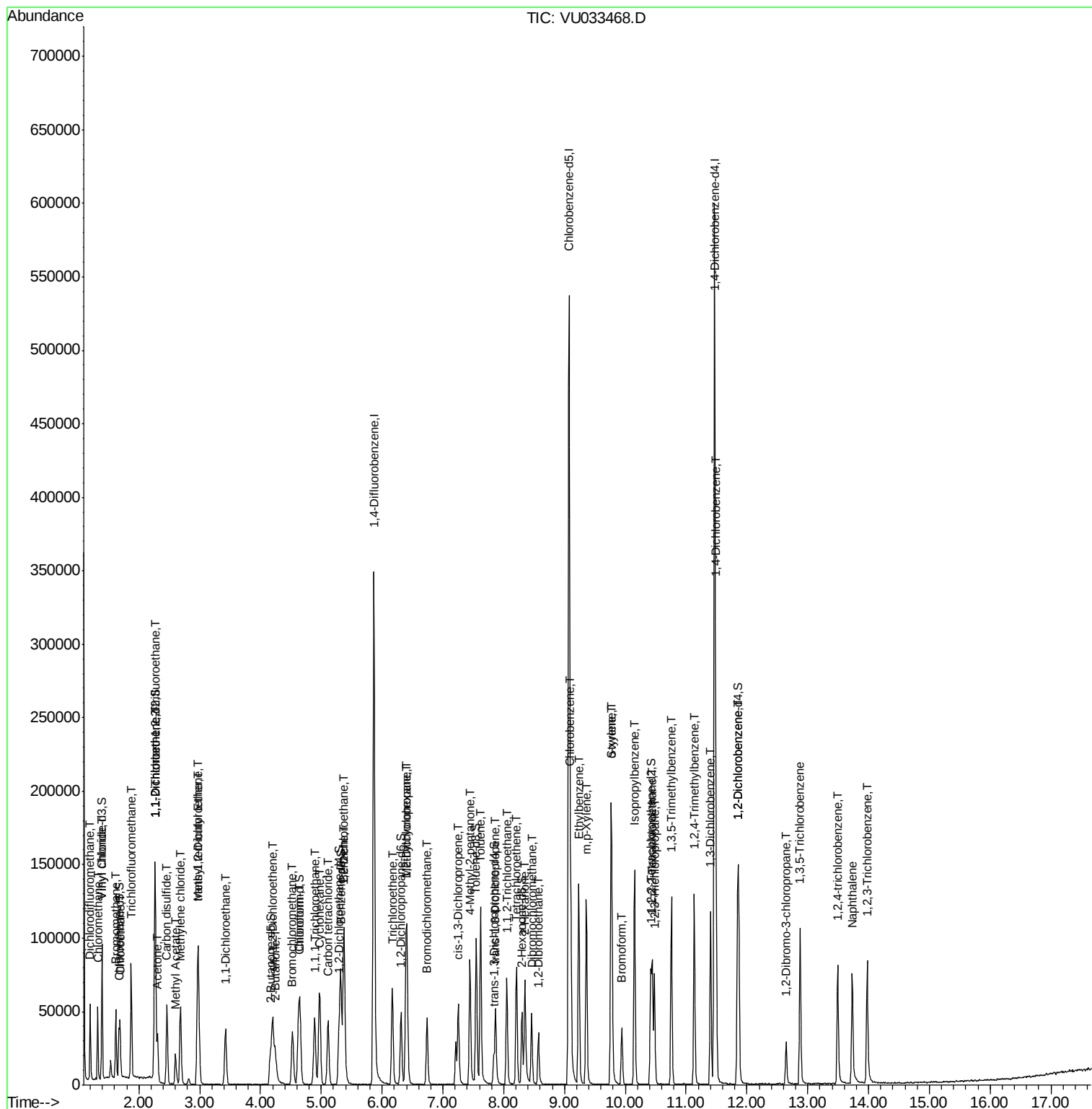
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	92686	9.284	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	29602	8.850	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	22952	9.994	ug/L	96
46) Tetrachloroethene	8.21	164	18643	10.102	ug/L	98
48) 2-Hexanone	8.35	43	45264	16.957	ug/L	95
49) Dibromochloromethane	8.46	129	24853	9.560	ug/L	100
50) 1,2-Dibromoethane	8.57	107	24123	9.624	ug/L	99
51) Chlorobenzene	9.10	112	63568	9.960	ug/L	100
52) Ethylbenzene	9.23	91	97236	9.113	ug/L	96
53) m,p-Xylene	9.36	106	35553	8.644	ug/L	92
54) o-xylene	9.77	106	34957	8.793	ug/L	99
55) Styrene	9.78	104	58839	8.540	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.44	83	40500	10.166	ug/L	98
59) Bromoform	9.94	173	17940	9.917	ug/L	97
60) 1,2,3-Trichloropropane	10.48	75	31282	10.680	ug/L	98
61) Isopropylbenzene	10.15	105	90840	9.430	ug/L	99
62) 1,3,5-Trimethylbenzene	10.76	105	69644	8.641	ug/L	99
63) 1,2,4-Trimethylbenzene	11.13	105	68597	8.447	ug/L	100
64) 1,3-Dichlorobenzene	11.40	146	48085	10.302	ug/L	97
65) 1,4-Dichlorobenzene	11.49	146	50045	10.623	ug/L	99
67) 1,2-Dichlorobenzene	11.86	146	48226	10.148	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.65	75	8094	9.745	ug/L	95
69) 1,3,5-Trichlorobenzene	12.87	180	34908	9.906	ug/L	98
70) 1,2,4-trichlorobenzene	13.49	180	27354	9.227	ug/L	96
71) Naphthalene	13.73	128	66504	7.355	ug/L	99
72) 1,2,3-Trichlorobenzene	13.98	180	28706	8.935	ug/L	99

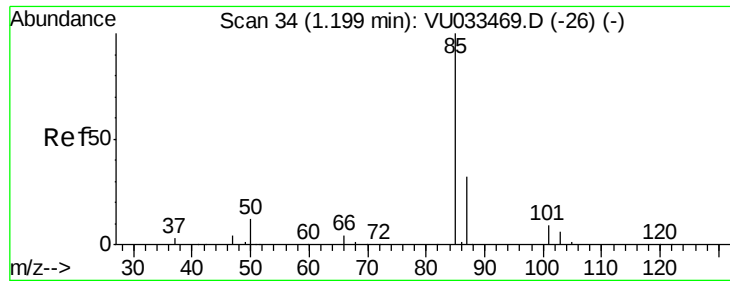
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 10.416 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

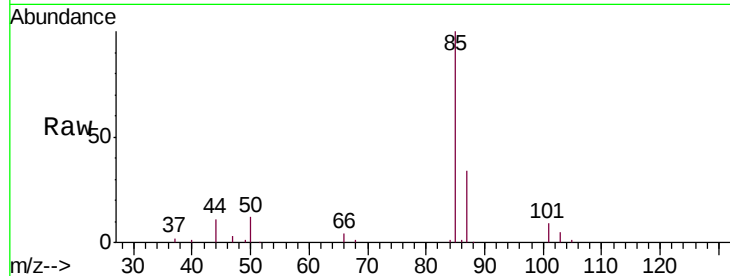
VSTD01034

Tgt Ion: 85 Resp: 30682

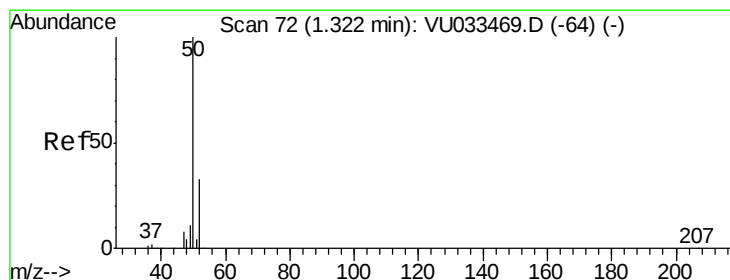
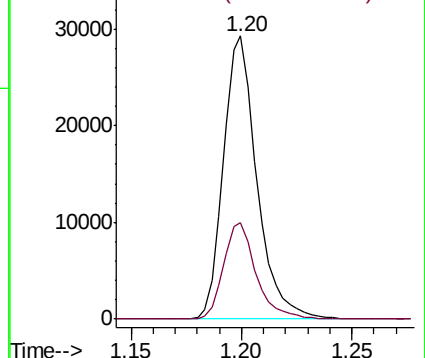
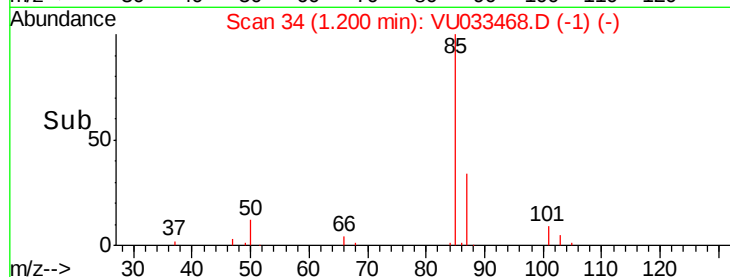
Ion Ratio Lower Upper

85 100

87 33.0 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033468.D (-1) (-)



#3

Chloromethane

Concen: 10.261 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033468.D

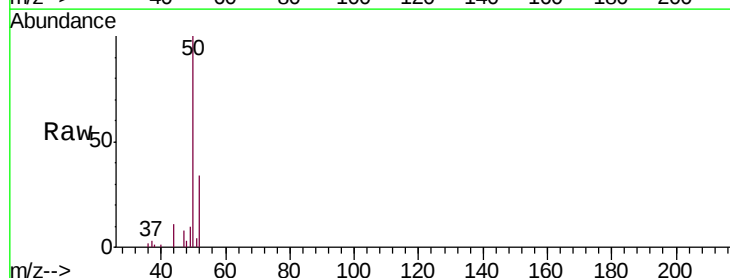
Acq: 29 Jul 2019 12:11

Tgt Ion: 50 Resp: 30548

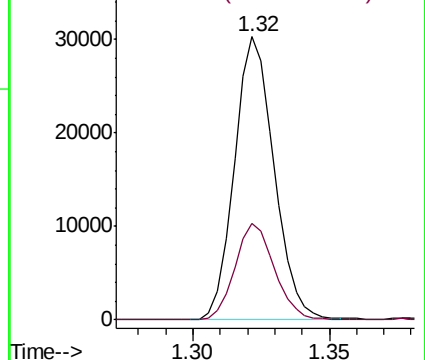
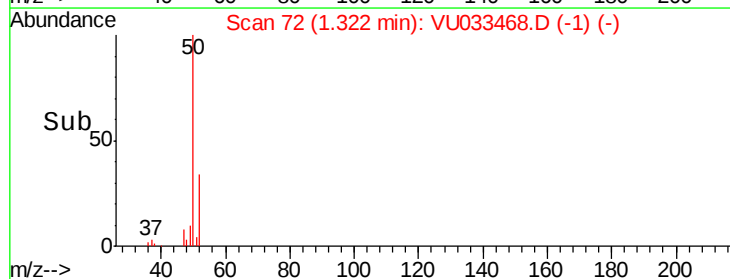
Ion Ratio Lower Upper

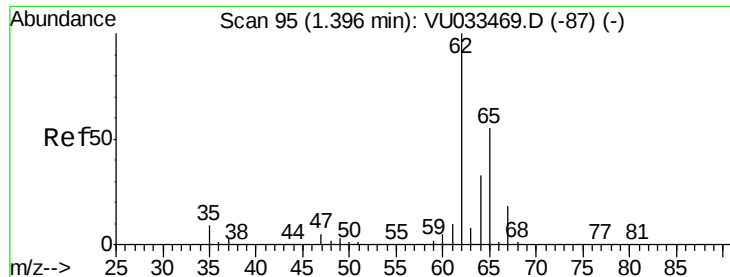
50 100

52 34.1 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033468.D (-1) (-)





#5

Vinyl chloride

Concen: 10.173 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

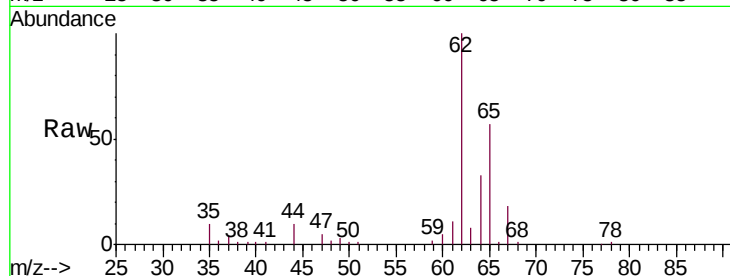
VSTD01034

Tgt Ion: 62 Resp: 34589

Ion Ratio Lower Upper

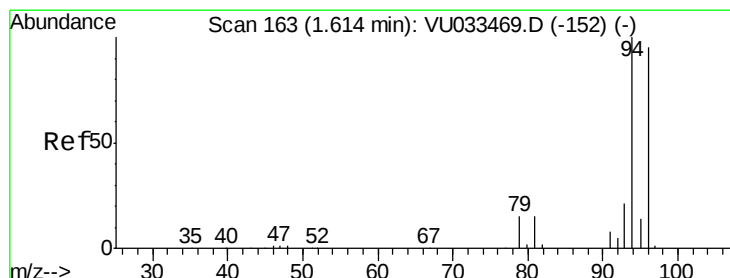
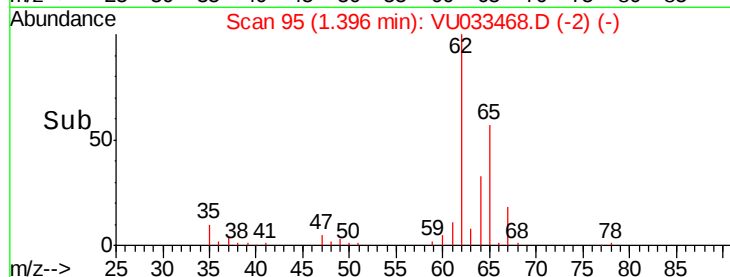
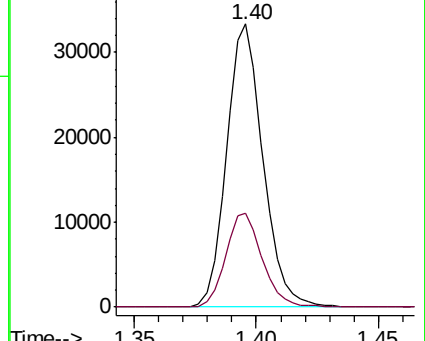
62 100

64 33.4 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU033468.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033468.D (-87) (-)



#6

Bromomethane

Concen: 9.879 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.01 min

Lab File: VU033468.D

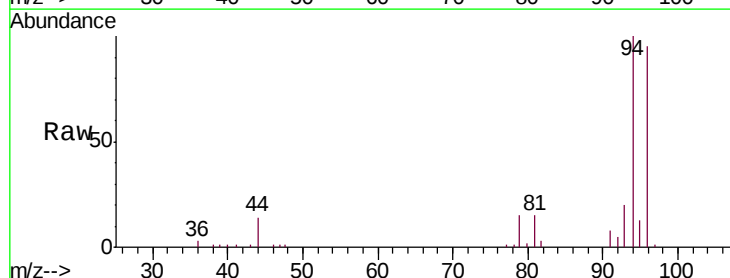
Acq: 29 Jul 2019 12:11

Tgt Ion: 94 Resp: 21103

Ion Ratio Lower Upper

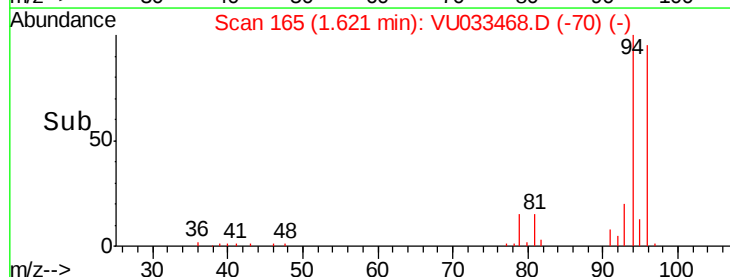
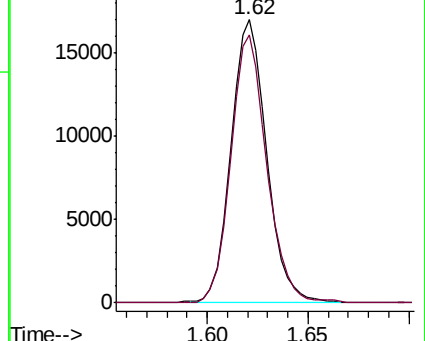
94 100

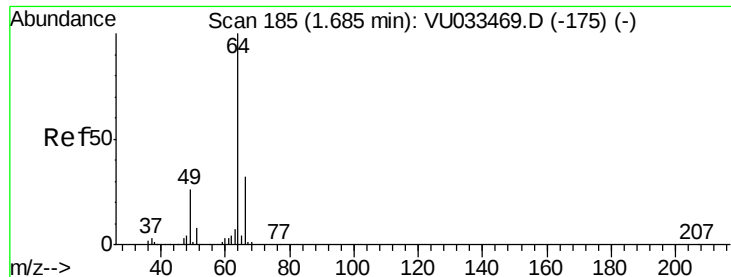
96 94.6 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU033468.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU033468.D (-152) (-)





#8

Chloroethane

Concen: 10.781 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

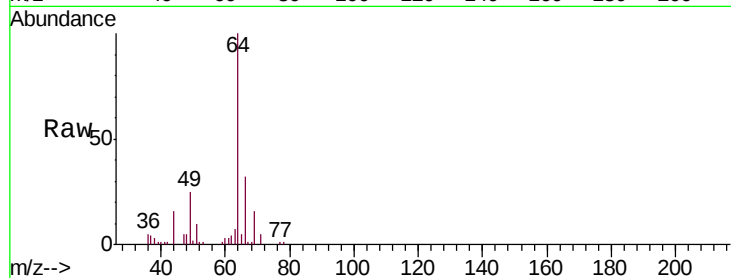
VSTD01034

Tgt Ion: 64 Resp: 22123

Ion Ratio Lower Upper

64 100

66 31.6 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU033468.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033468.D (-175) (-)

20000

15000

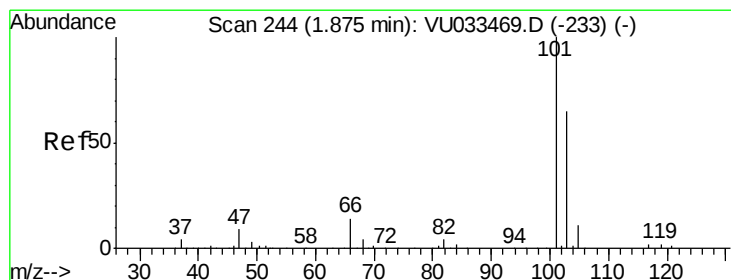
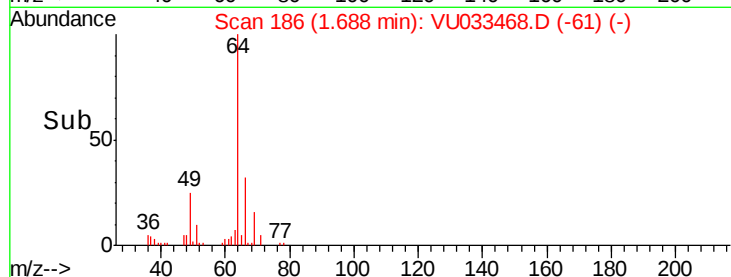
10000

5000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 10.206 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033468.D

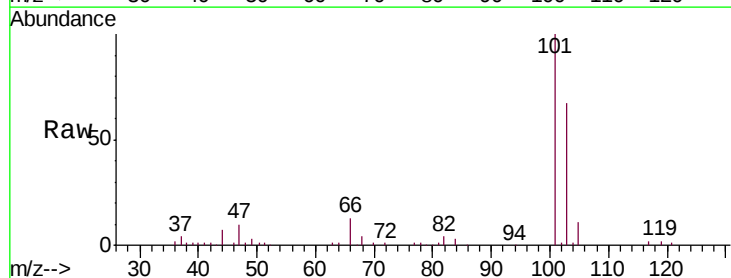
Acq: 29 Jul 2019 12:11

Tgt Ion: 101 Resp: 45495

Ion Ratio Lower Upper

101 100

103 67.6 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU033468.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033468.D (-233) (-)

40000

30000

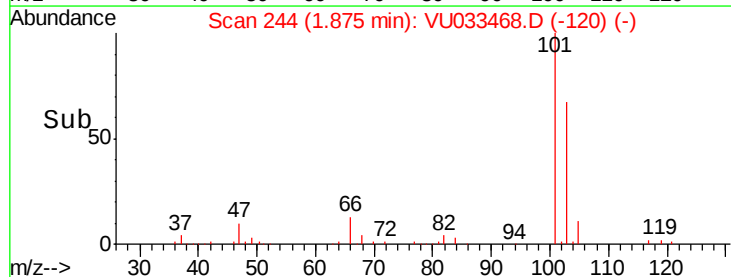
20000

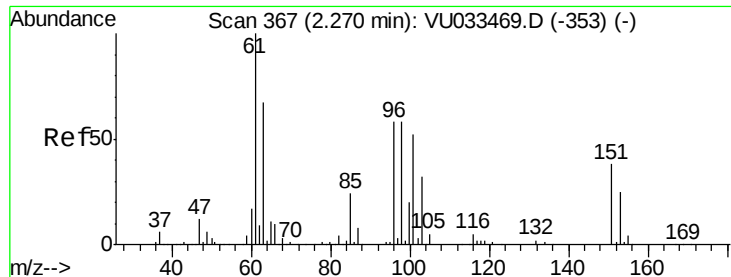
10000

0

1.85 1.90

Time-->





#10

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

Concen: 9.722 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD01034

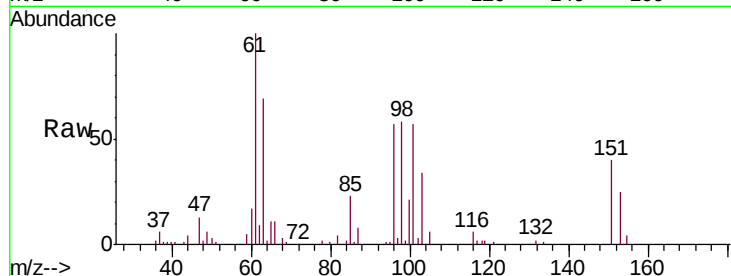
Tgt Ion: 101 Resp: 22568

Ion Ratio Lower Upper

101 100

85 44.4 35.8 53.8

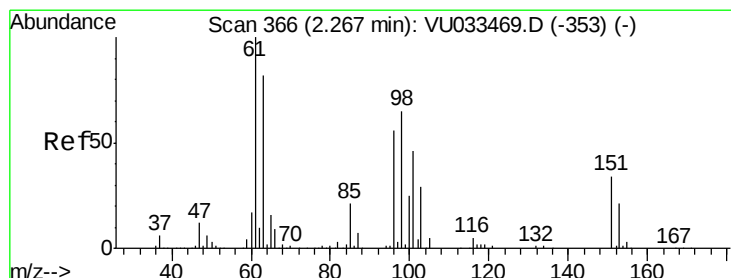
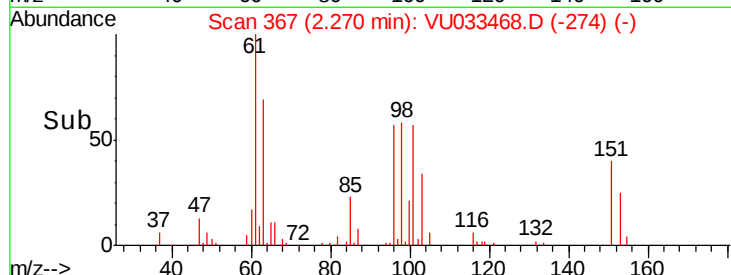
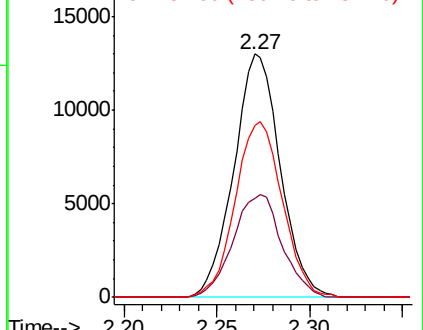
151 73.4 58.6 87.8



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: 8.947 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

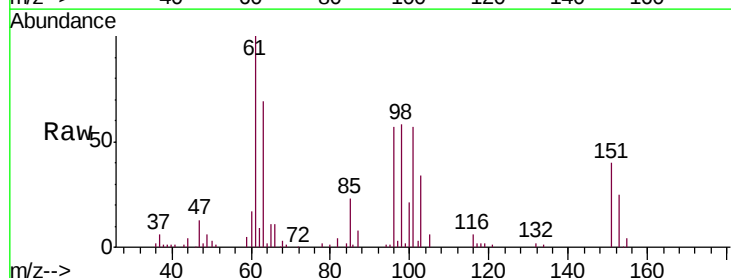
Tgt Ion: 96 Resp: 20537

Ion Ratio Lower Upper

96 100

61 174.7 124.1 230.5

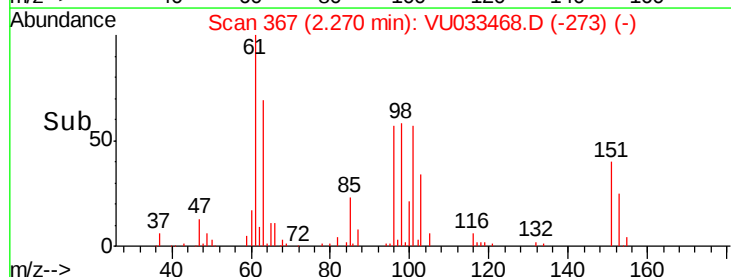
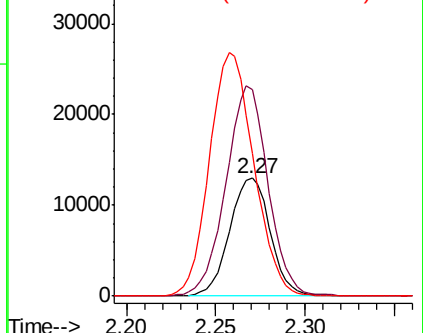
63 120.6 101.8 189.2

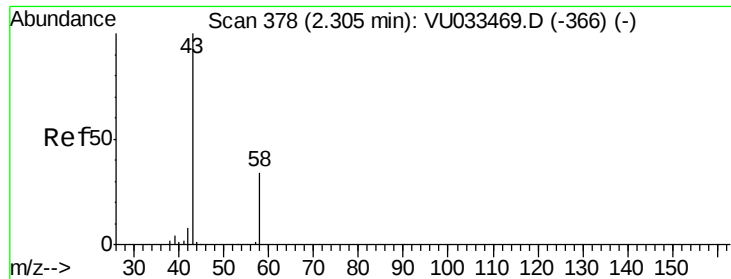


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 20.582 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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ClientSampleId :

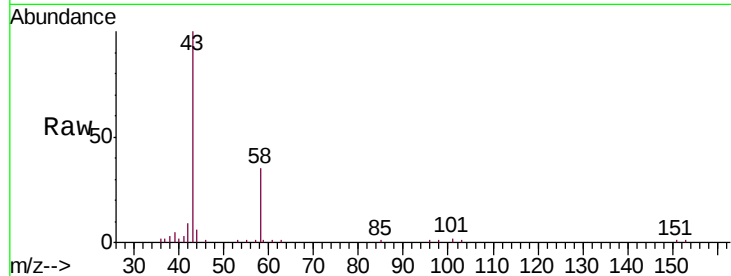
VSTD01034

Tgt Ion: 43 Resp: 31411

Ion Ratio Lower Upper

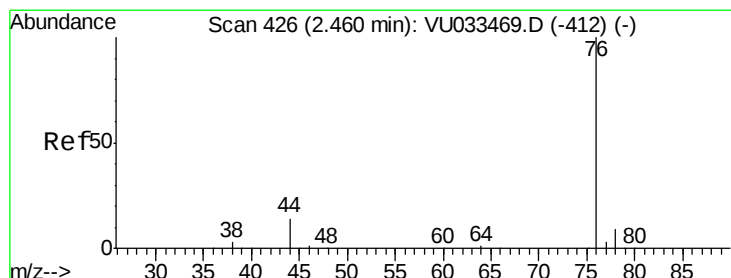
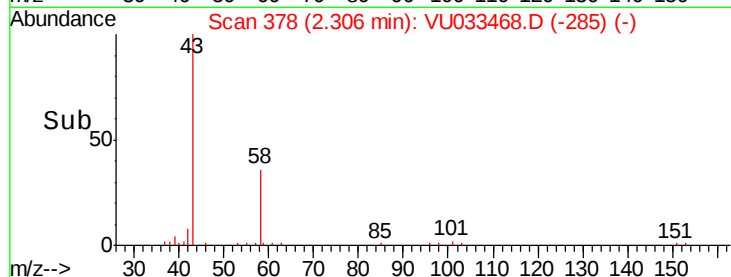
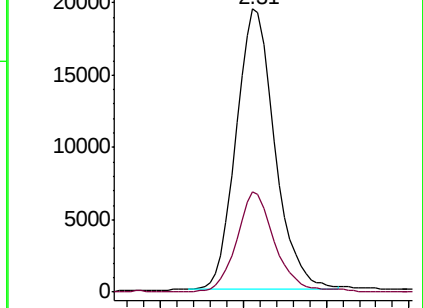
43 100

58 34.9 0.0 67.4



Abundance Ion 43.00 (42.70 to 43.70): VU033468.D (-366) (-)

Ion 58.00 (57.70 to 58.70): VU033468.D (-366) (-)



#14

Carbon disulfide

Concen: 10.312 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033468.D

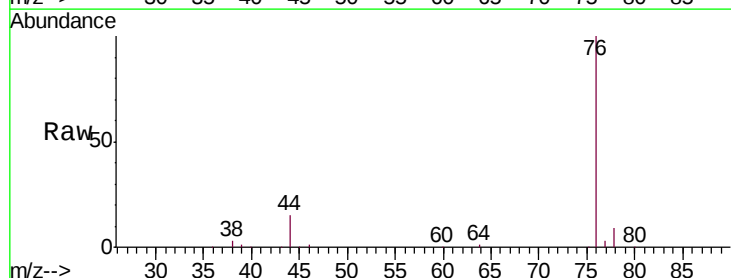
Acq: 29 Jul 2019 12:11

Tgt Ion: 76 Resp: 65670

Ion Ratio Lower Upper

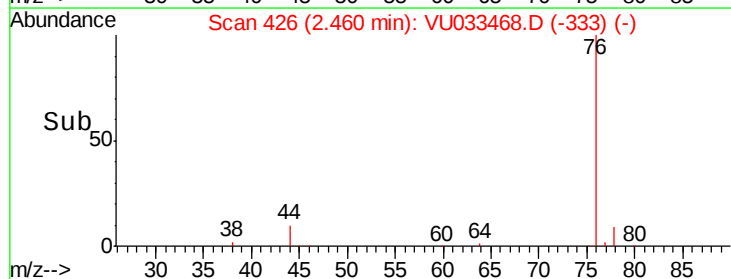
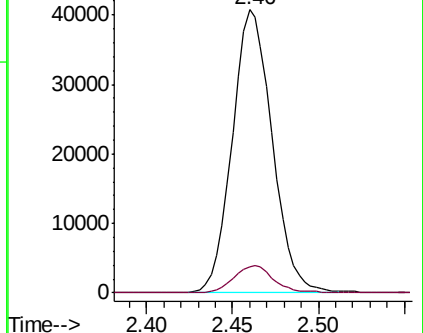
76 100

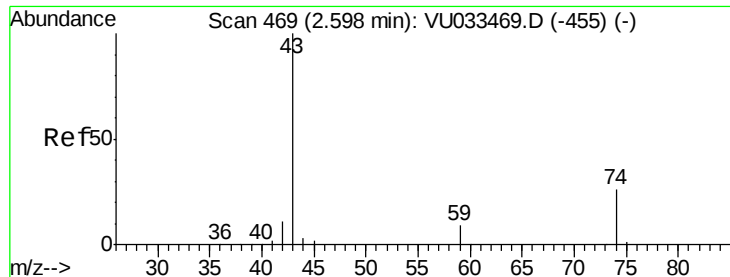
78 9.1 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU033468.D (-412) (-)

Ion 78.00 (77.70 to 78.70): VU033468.D (-412) (-)

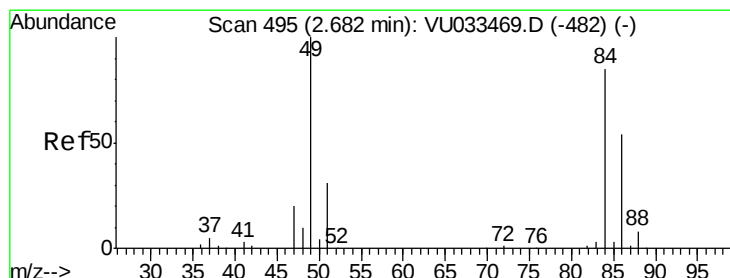
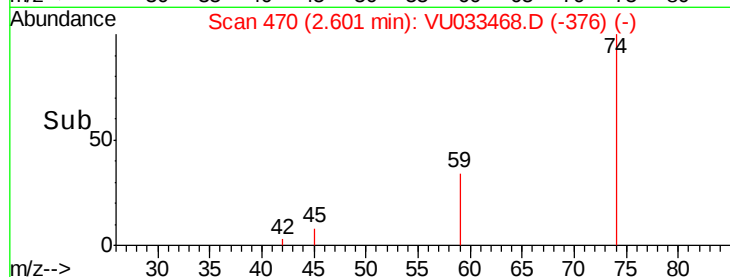
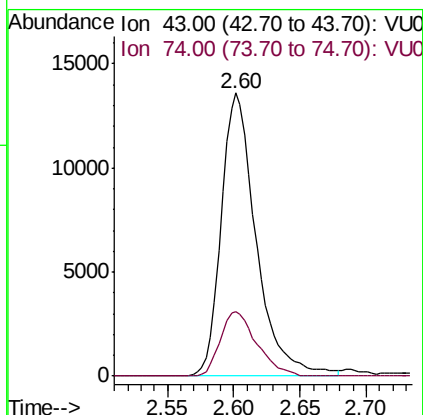
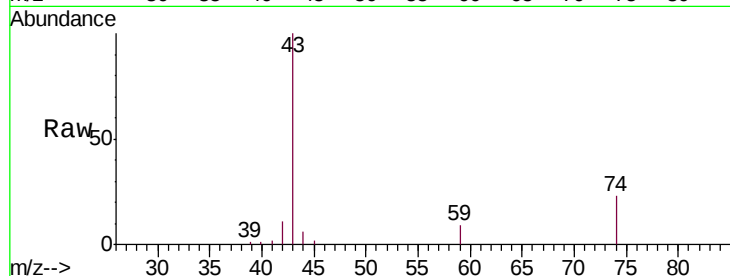




#15
Methyl Acetate
Concen: 10.256 ug/L
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

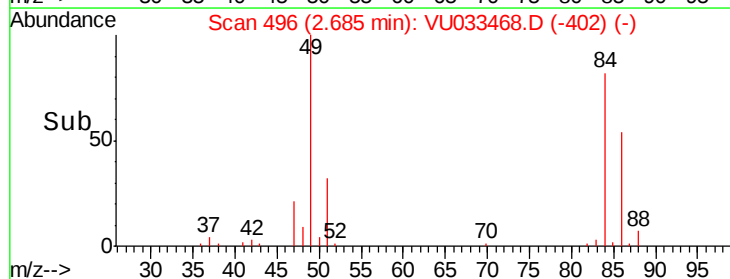
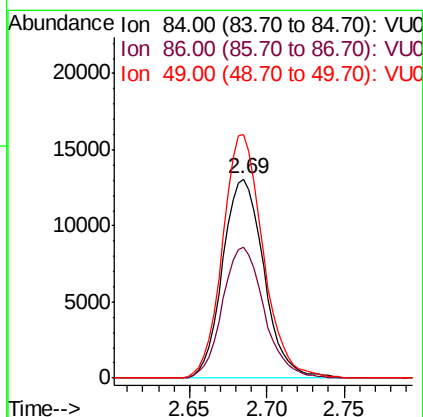
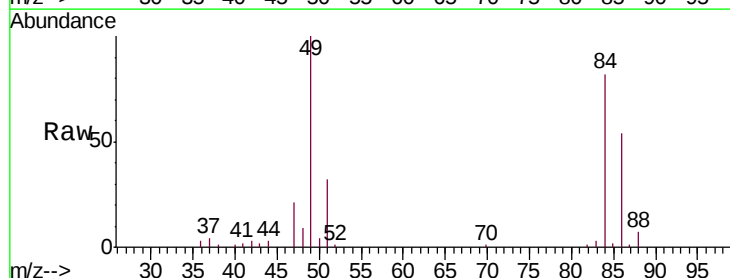
Instrument :
MSVOA_U
ClientSampleId :
VSTD01034

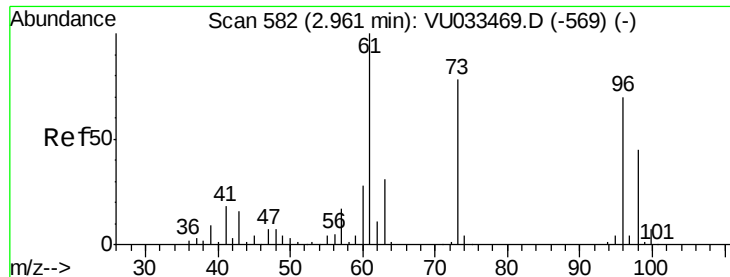
Tgt Ion: 43 Resp: 24951
Ion Ratio Lower Upper
43 100
74 23.8 20.5 30.7



#16
Methylene chloride
Concen: 10.131 ug/L
RT: 2.69 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

Tgt Ion: 84 Resp: 24248
Ion Ratio Lower Upper
84 100
86 65.5 44.2 82.0
49 122.4 82.3 152.8





#17

trans-1,2-Dichloroethene

Concen: 10.259 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD01034

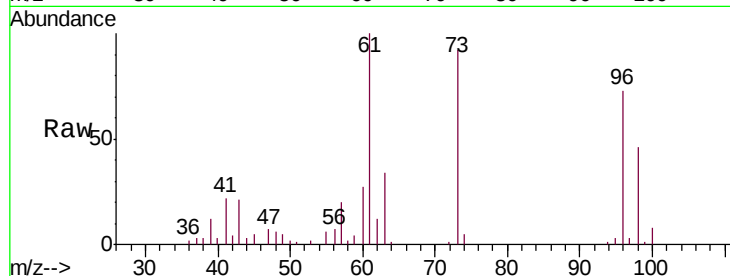
Tgt Ion: 96 Resp: 21652

Ion Ratio Lower Upper

96 100

61 136.5 100.3 186.3

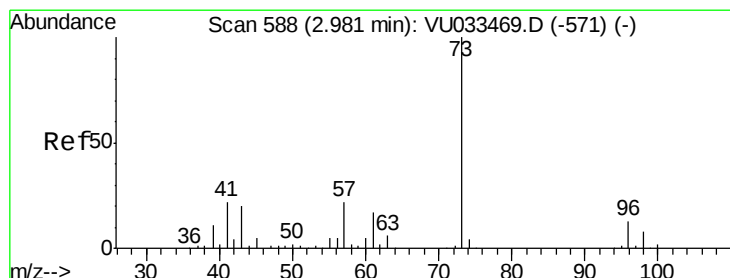
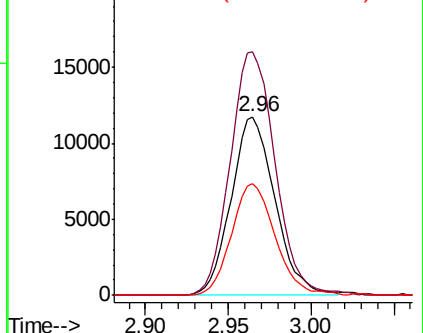
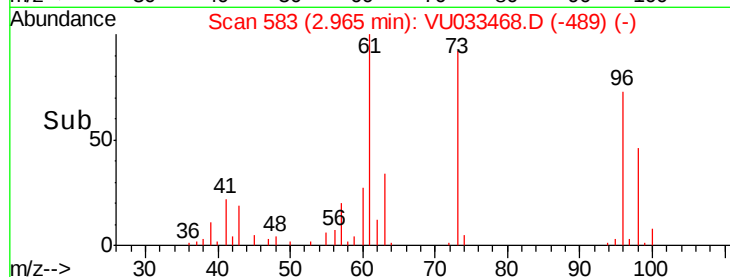
98 62.8 45.1 83.9



Abundance Ion 96.00 (95.70 to 96.70): VU033468.D (-489) (-)

Ion 61.00 (60.70 to 61.70): VU033468.D (-489) (-)

Ion 98.00 (97.70 to 98.70): VU033468.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 9.318 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

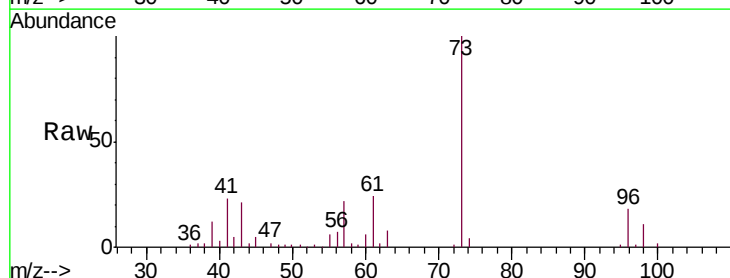
Tgt Ion: 73 Resp: 60452

Ion Ratio Lower Upper

73 100

43 20.8 15.3 22.9

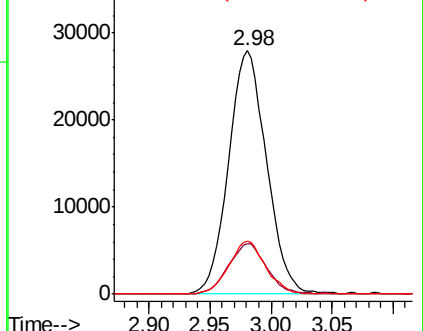
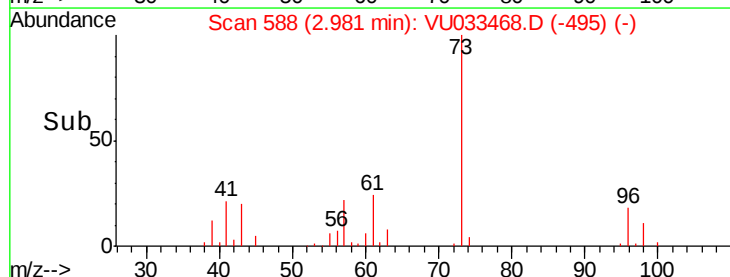
57 20.9 17.7 26.5

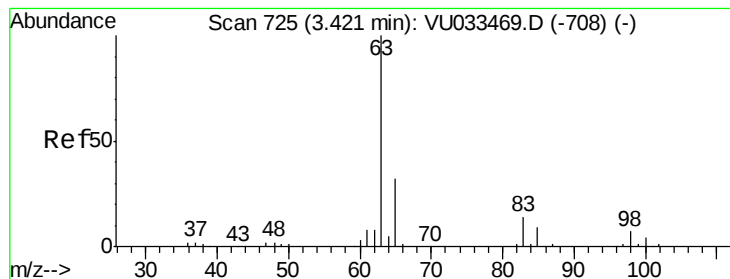


Abundance Ion 73.00 (72.70 to 73.70): VU033468.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU033468.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU033468.D (-495) (-)





#19

1,1-Dichloroethane

Concen: 9.877 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD01034

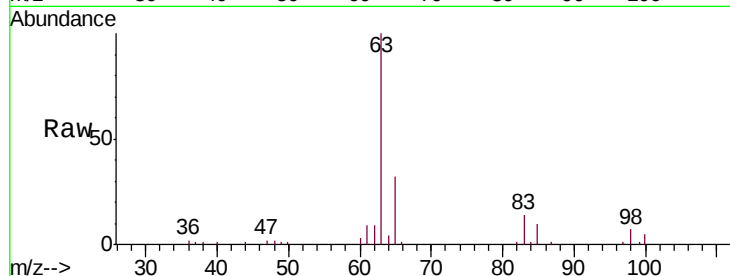
Tgt Ion: 63 Resp: 40679

Ion Ratio Lower Upper

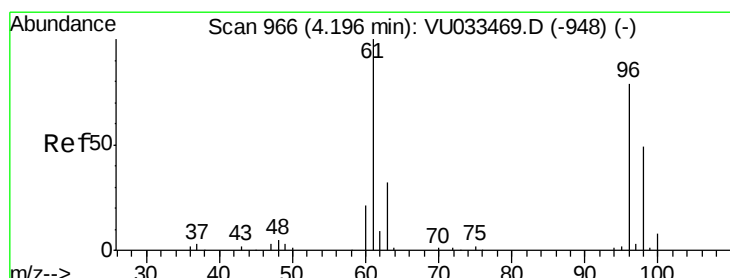
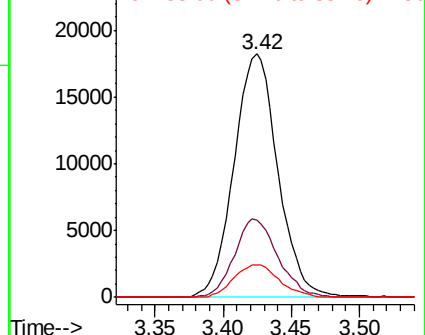
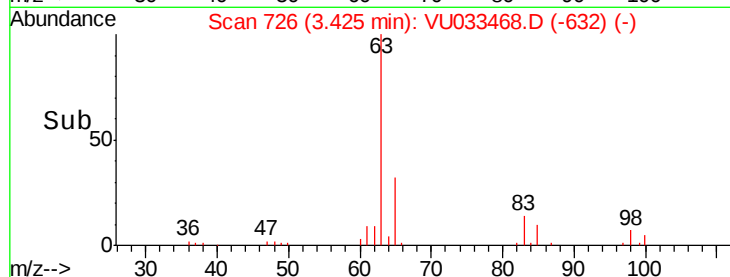
63 100

65 31.7 22.7 42.1

83 13.5 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VU033468.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 9.697 ug/L

RT: 4.20 min Scan# 968

Delta R.T. 0.01 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

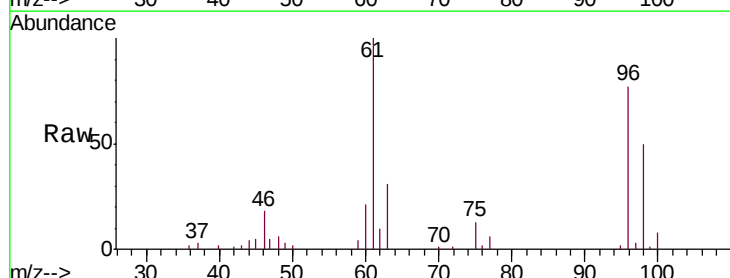
Tgt Ion: 96 Resp: 23158

Ion Ratio Lower Upper

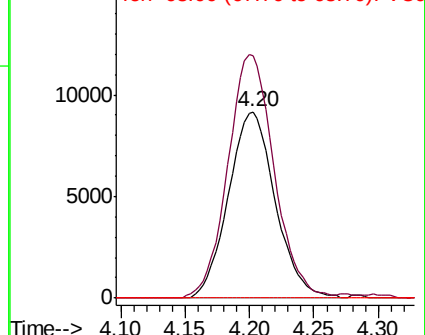
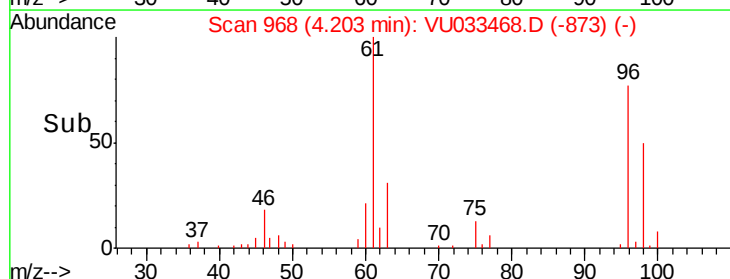
96 100

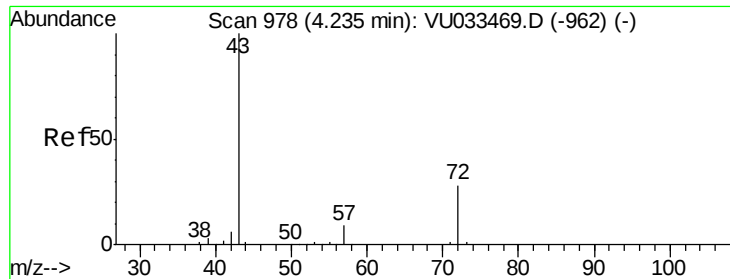
61 130.0 88.9 165.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033468.D (-873) (-)





#22

2-Butanone

Concen: 17.718 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.01 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

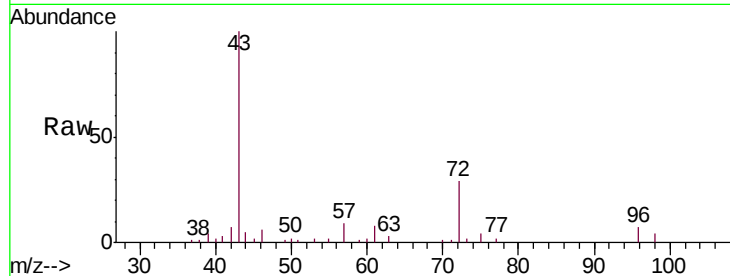
VSTD01034

Tgt Ion: 43 Resp: 33220

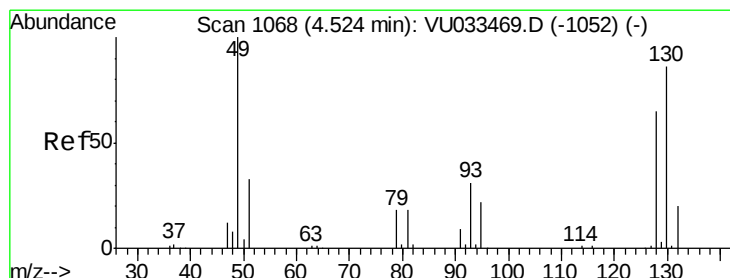
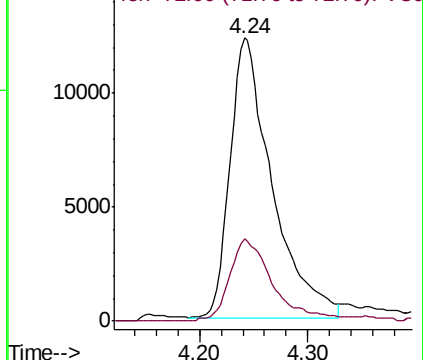
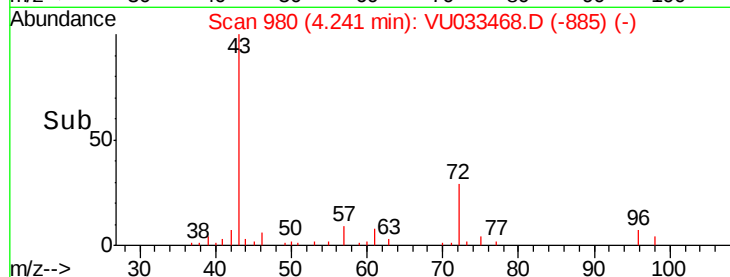
Ion Ratio Lower Upper

43 100

72 28.9 14.1 42.3



Abundance Ion 43.00 (42.70 to 43.70): VU033468.D (-985) (-)



#23

Bromochloromethane

Concen: 10.483 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Tgt Ion: 128 Resp: 13045

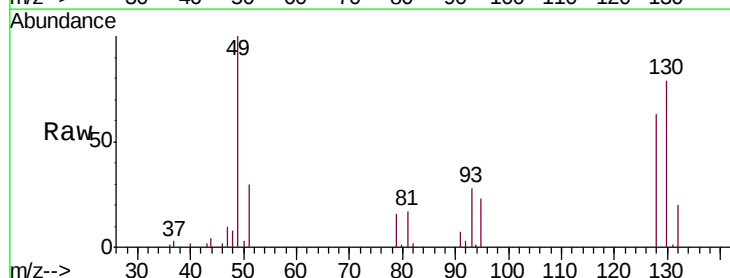
Ion Ratio Lower Upper

128 100

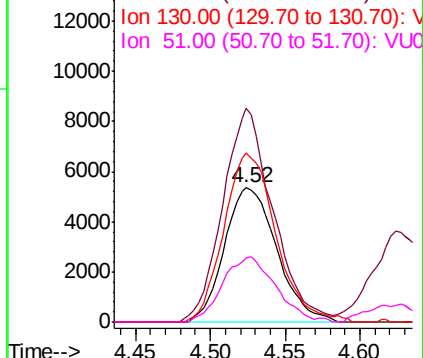
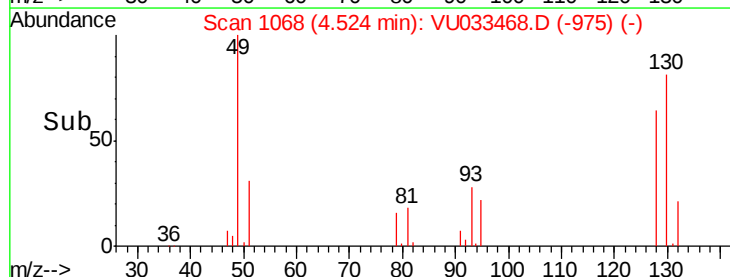
49 159.4 108.0 200.6

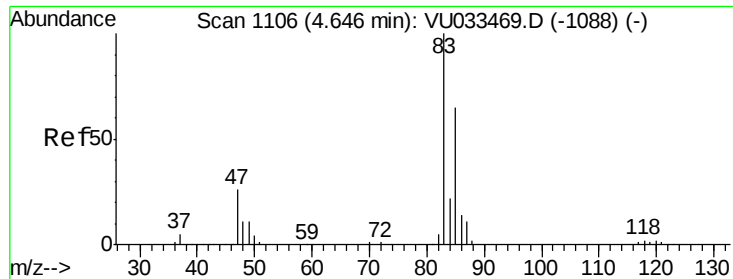
130 125.7 92.9 172.5

51 47.9 40.2 60.4



Abundance Ion 128.00 (127.70 to 128.70): VU033468.D (-975) (-)

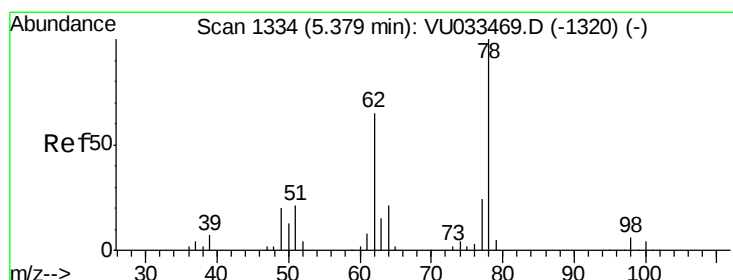
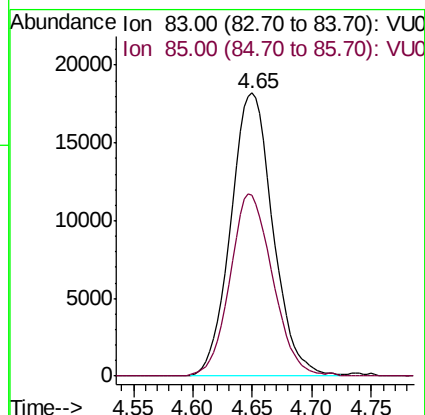
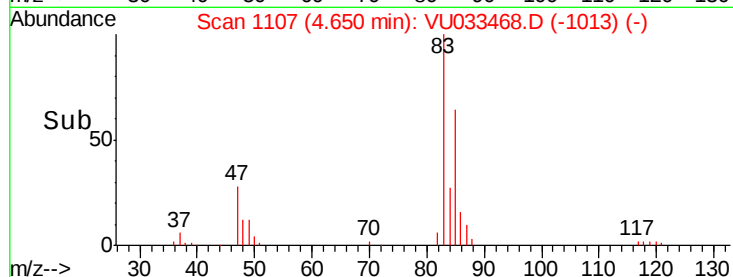
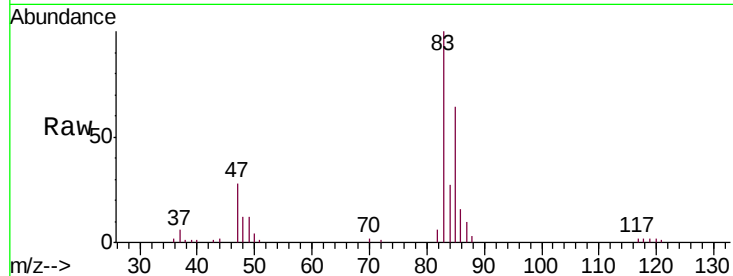




#25
Chloroform
Concen: 10.309 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

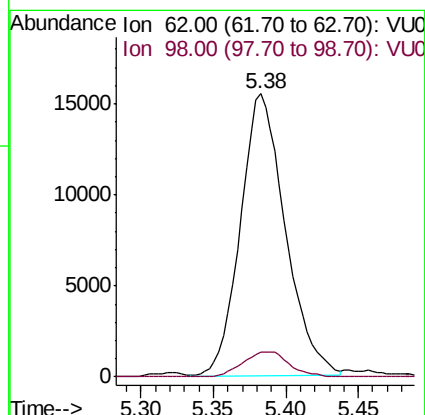
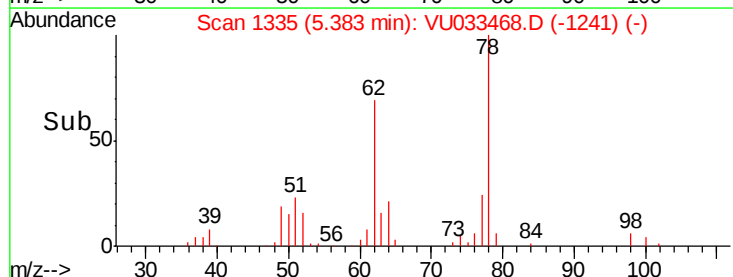
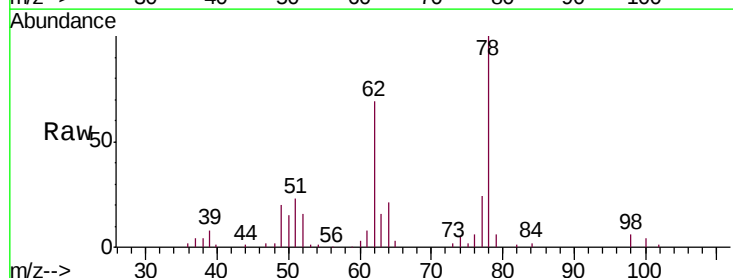
Instrument :
MSVOA_U
ClientSampleId :
VSTD01034

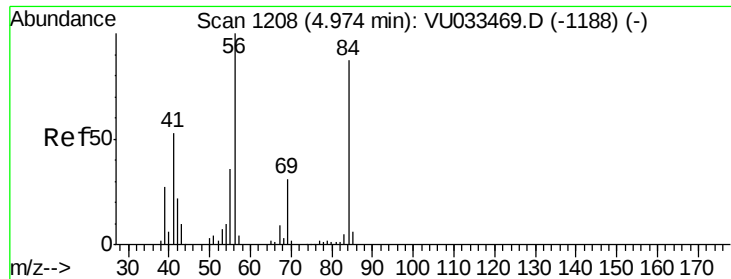
Tgt Ion: 83 Resp: 44704
Ion Ratio Lower Upper
83 100
85 63.8 45.6 84.8



#27
1,2-Dichloroethane
Concen: 9.921 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

Tgt Ion: 62 Resp: 33406
Ion Ratio Lower Upper
62 100
98 8.6 6.7 10.1

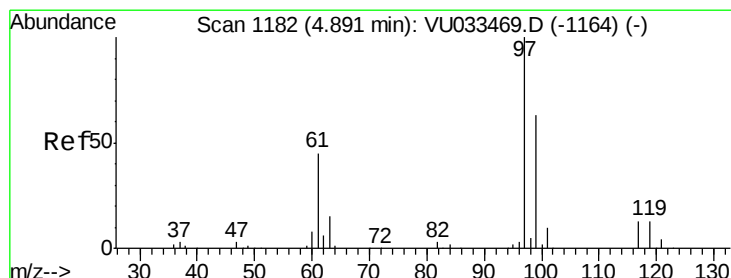
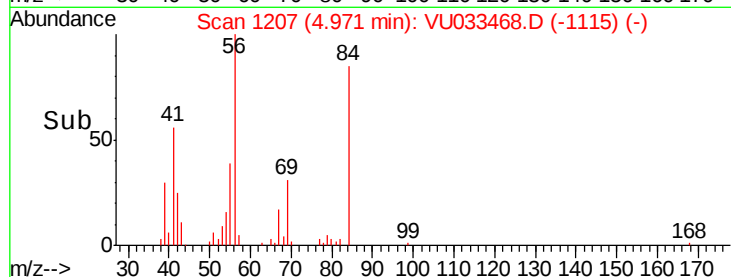
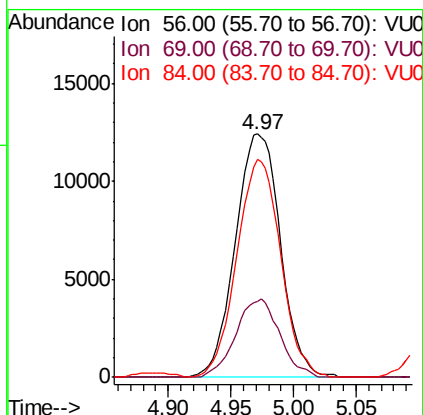
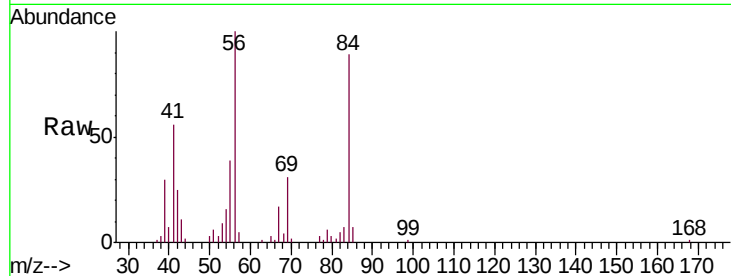




#29
Cyclohexane
Concen: 9.117 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

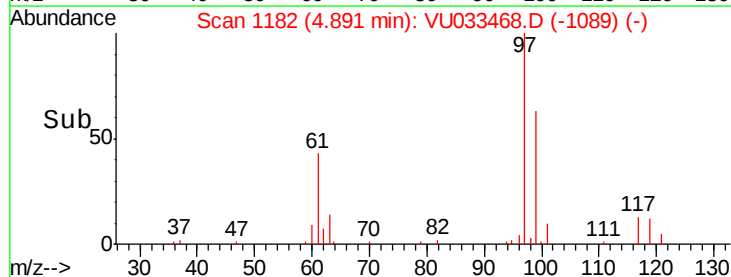
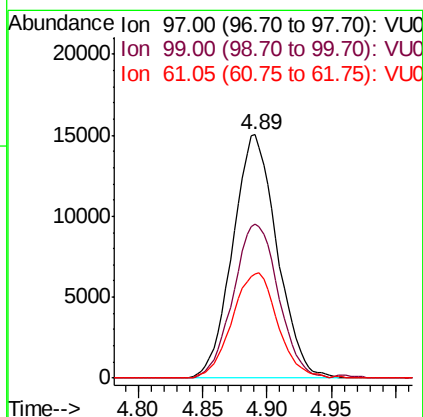
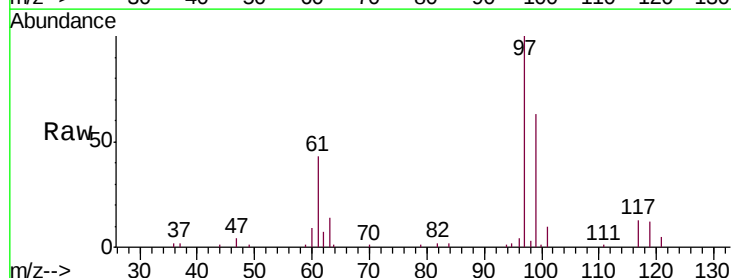
Instrument :
MSVOA_U
ClientSampleId :
VSTD01034

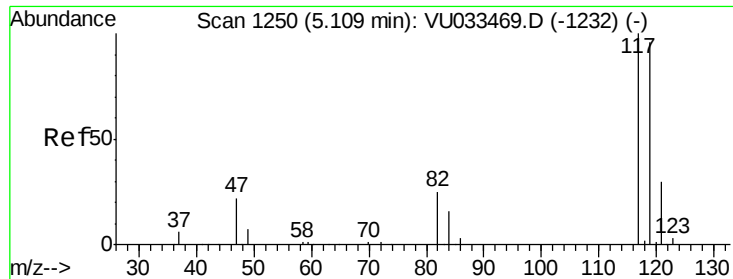
Tgt Ion: 56 Resp: 31029
Ion Ratio Lower Upper
56 100
69 31.2 25.3 37.9
84 87.1 69.6 104.4



#30
1,1,1-Trichloroethane
Concen: 10.162 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

Tgt Ion: 97 Resp: 36048
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 44.2 36.2 54.2





#31

Carbon tetrachloride

Concen: 9.824 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

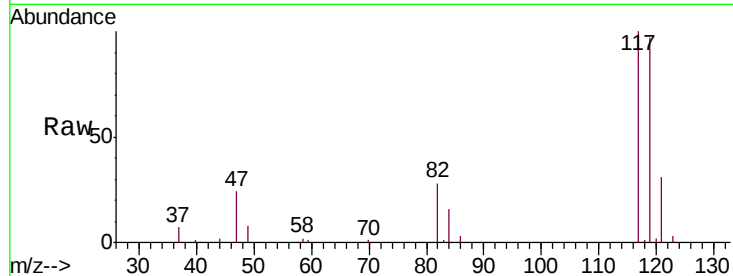
VSTD01034

Tgt Ion:117 Resp: 31062

Ion Ratio Lower Upper

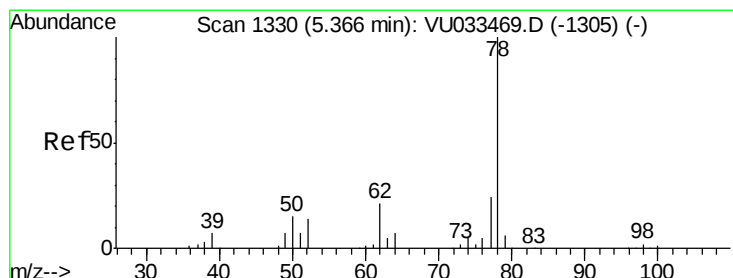
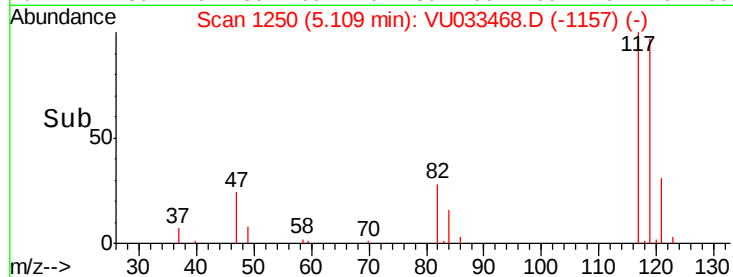
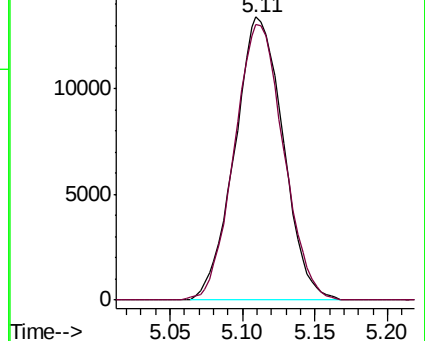
117 100

119 98.7 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 9.661 ug/L

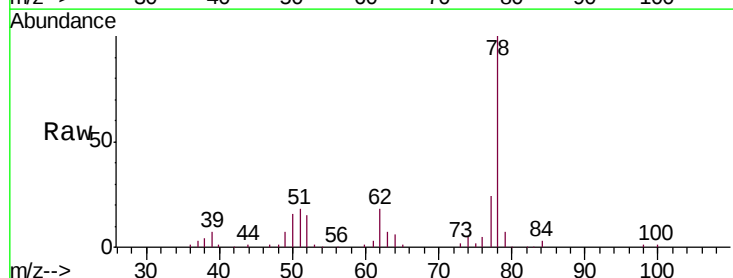
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

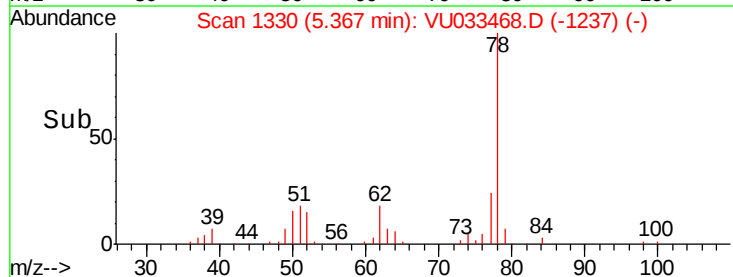
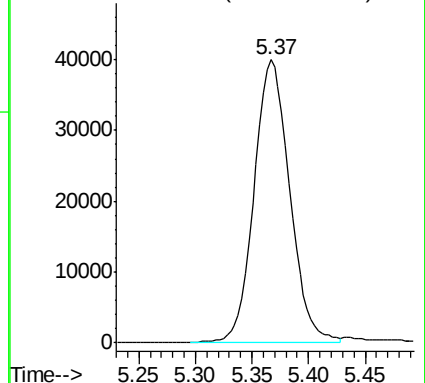
Lab File: VU033468.D

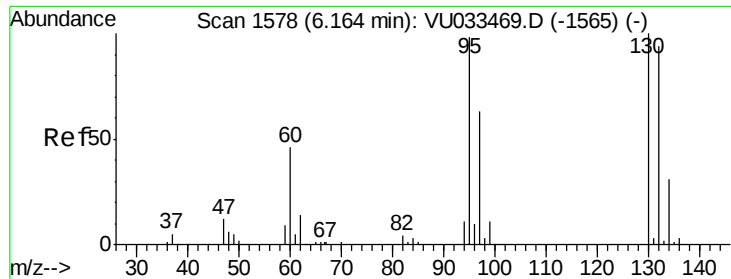
Acq: 29 Jul 2019 12:11

Tgt Ion: 78 Resp: 87863



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 9.807 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD01034

Tgt Ion: 95 Resp: 22741

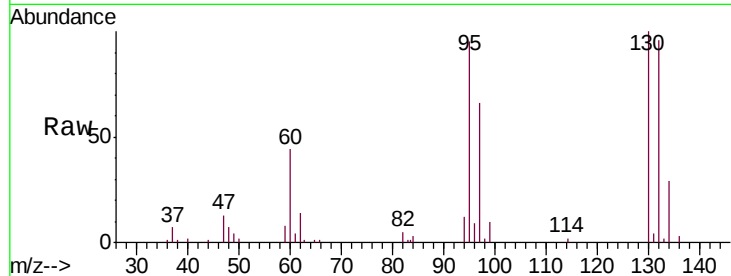
Ion Ratio Lower Upper

95 100

97 69.8 45.4 84.2

132 101.2 67.1 124.5

130 105.4 71.4 132.6

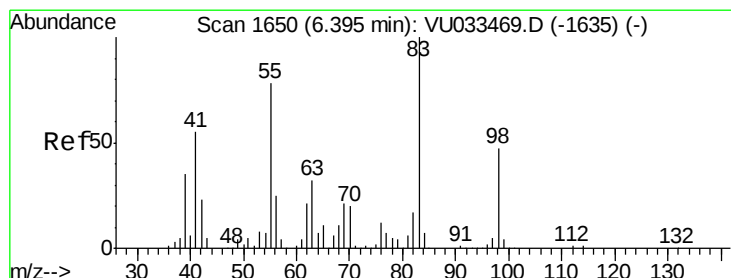
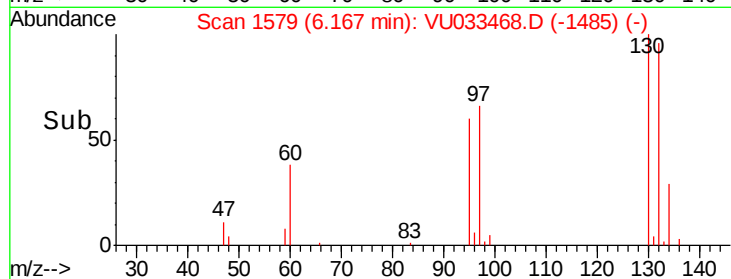
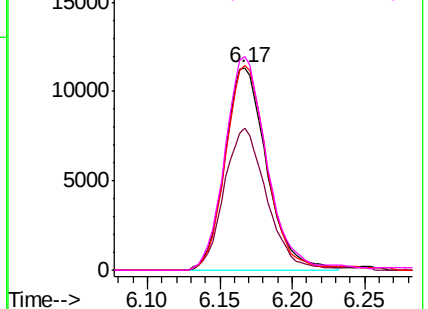


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 9.401 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

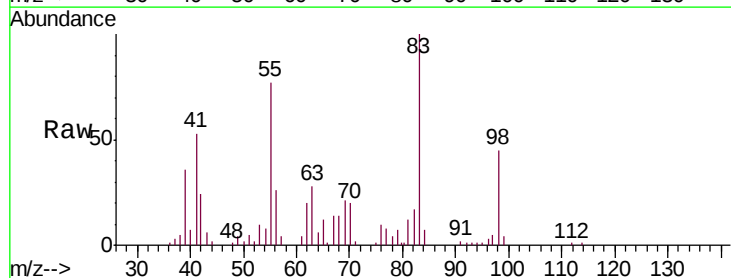
Tgt Ion: 83 Resp: 33134

Ion Ratio Lower Upper

83 100

55 77.0 62.4 93.6

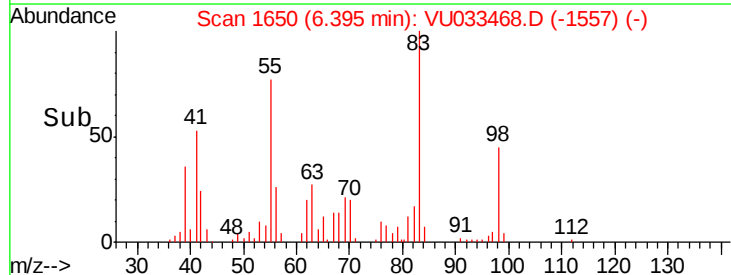
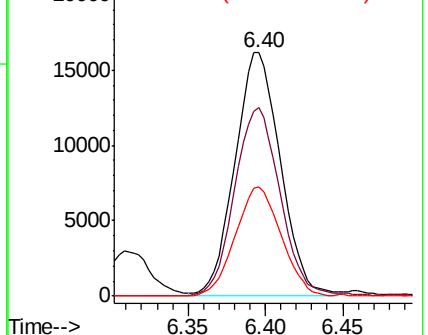
98 45.0 37.3 55.9

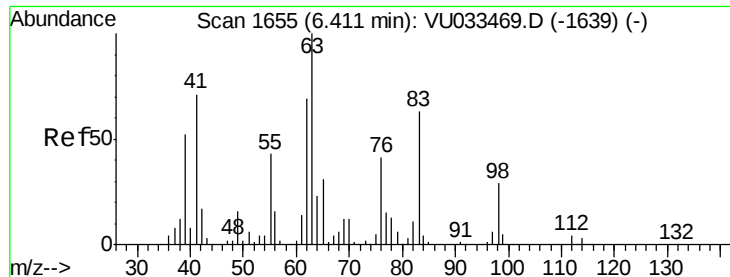


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

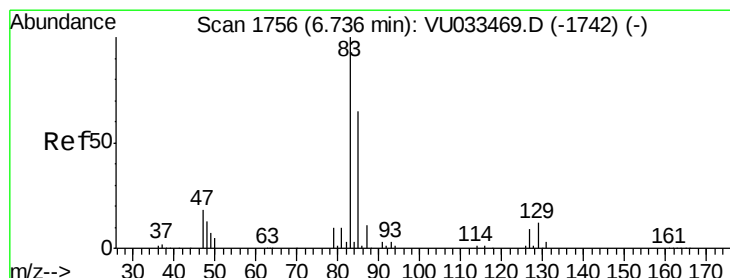
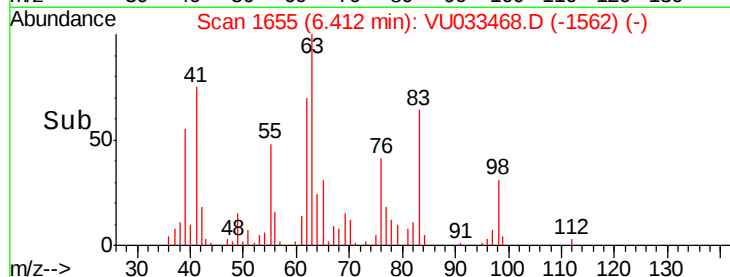
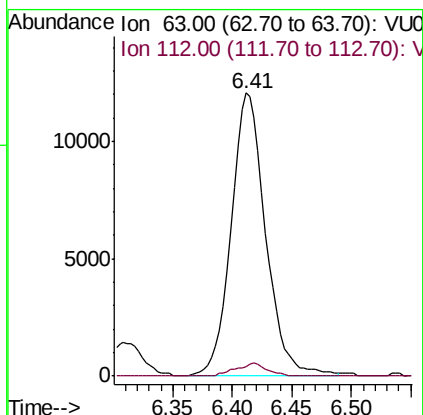
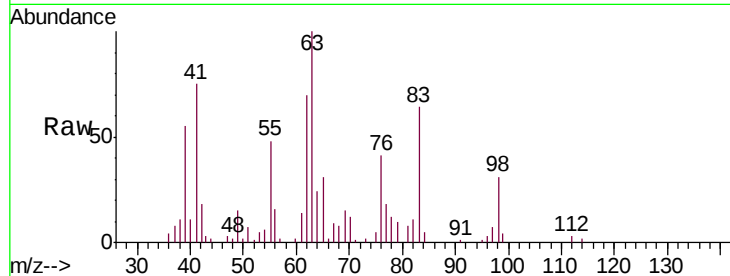




#37
 1,2-Dichloropropane
 Concen: 10.070 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

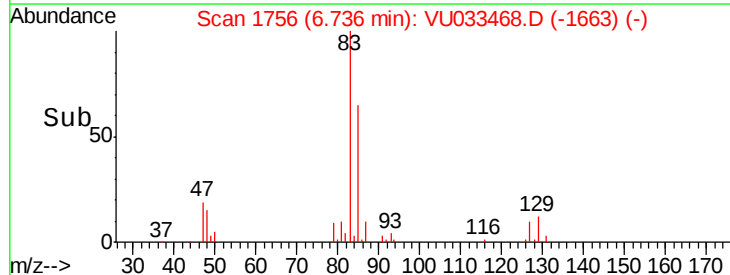
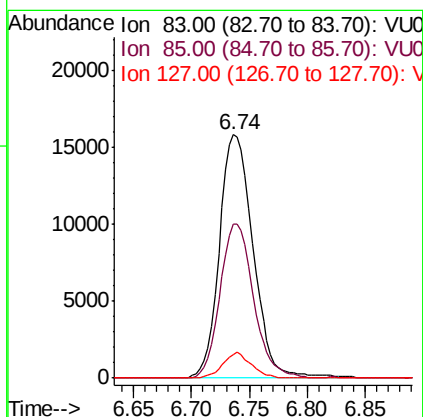
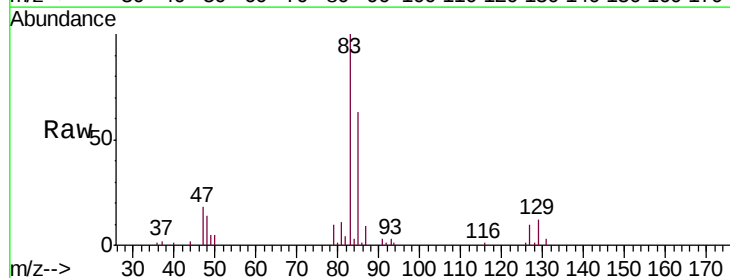
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01034

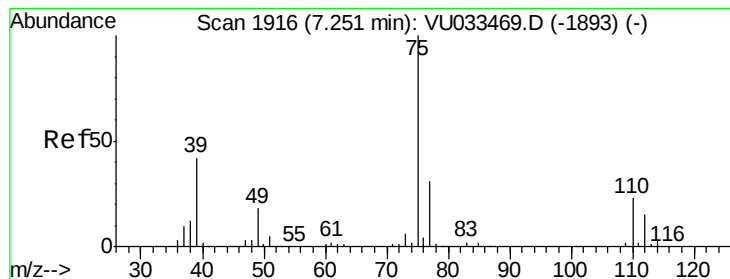
Tgt Ion: 63 Resp: 24222
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.1 4.7



#38
 Bromodichloromethane
 Concen: 10.258 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

Tgt Ion: 83 Resp: 31948
 Ion Ratio Lower Upper
 83 100
 85 63.1 45.4 84.4
 127 9.9 7.3 10.9



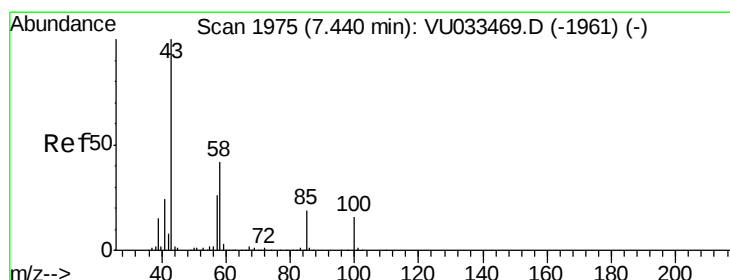
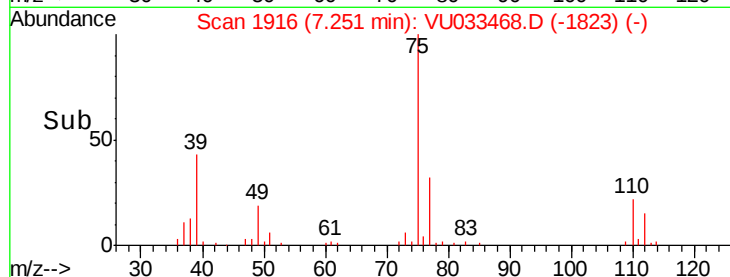
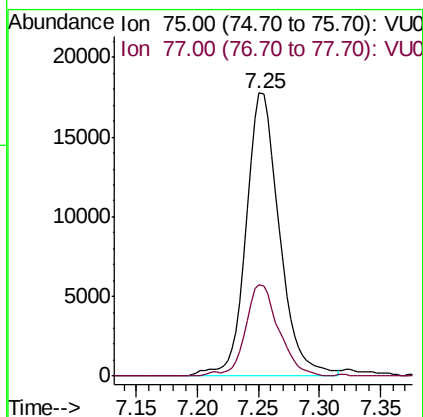
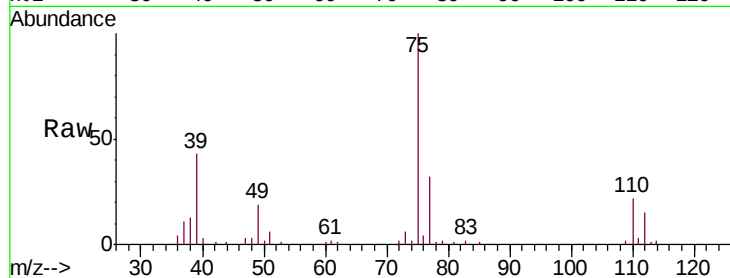


#39

cis-1,3-Dichloropropene
 Concen: 8.948 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01034

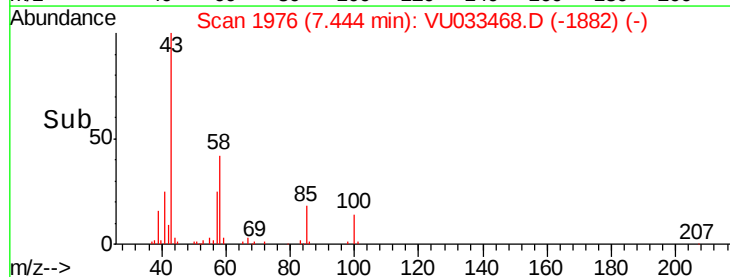
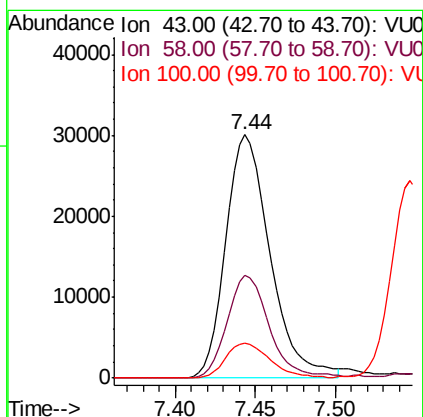
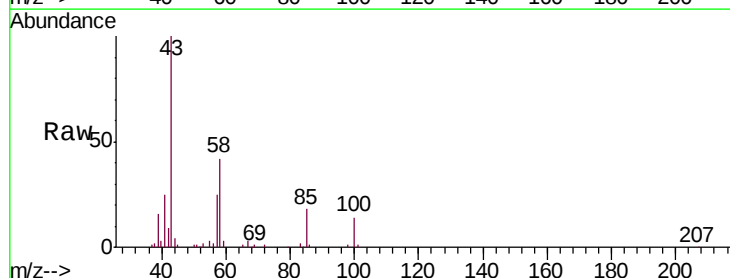
Tgt Ion: 75 Resp: 33501
 Ion Ratio Lower Upper
 75 100
 77 32.2 21.6 40.2

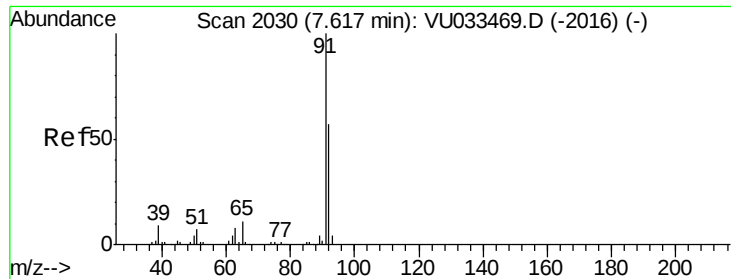


#40

4-Methyl-2-pentanone
 Concen: 17.554 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

Tgt Ion: 43 Resp: 57063
 Ion Ratio Lower Upper
 43 100
 58 39.5 33.4 50.2
 100 14.5 12.3 18.5





#42

Toluene

Concen: 9.284 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

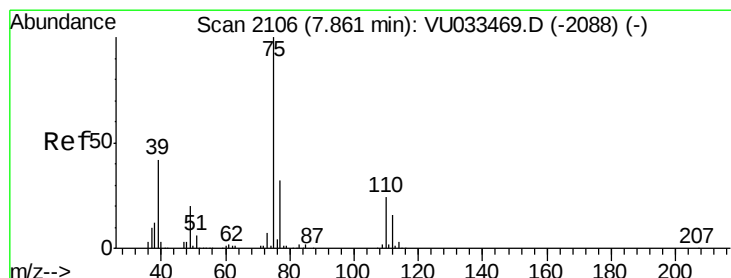
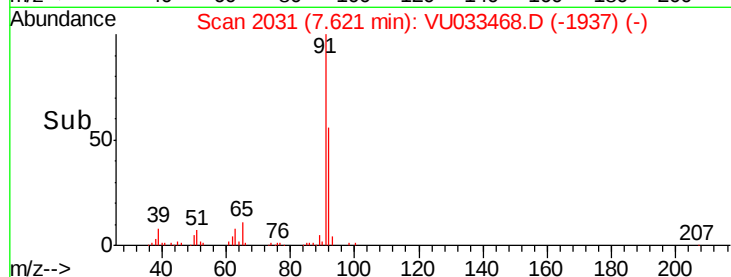
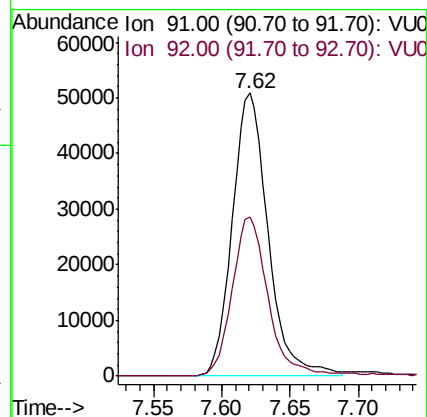
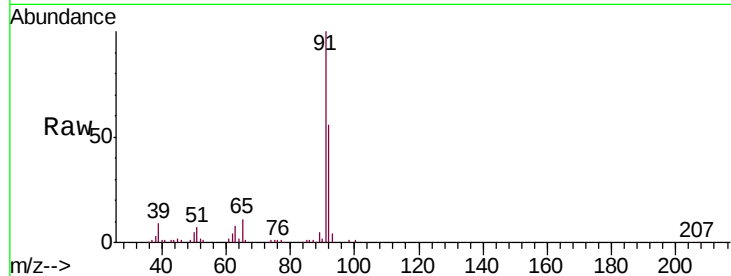
VSTD01034

Tgt Ion: 91 Resp: 92686

Ion Ratio Lower Upper

91 100

92 56.4 40.1 74.5



#44

trans-1,3-Dichloropropene

Concen: 8.850 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033468.D

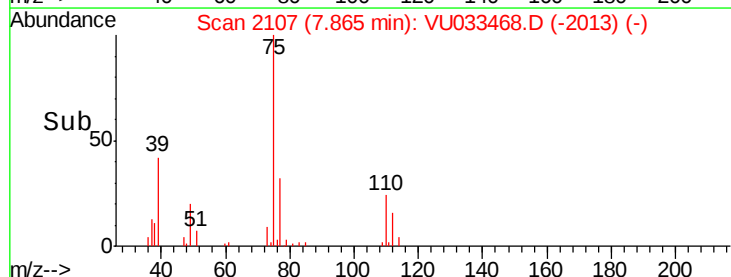
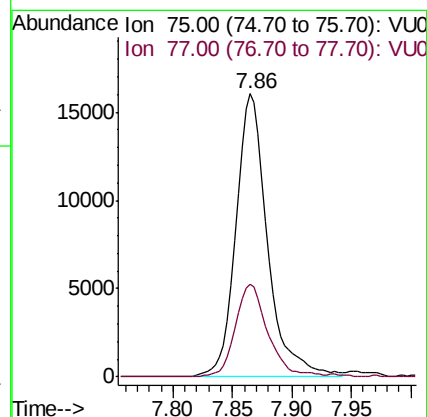
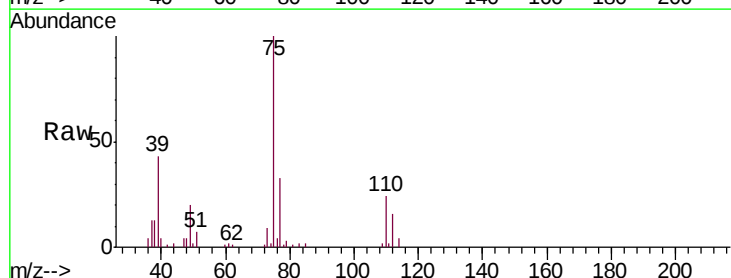
Acq: 29 Jul 2019 12:11

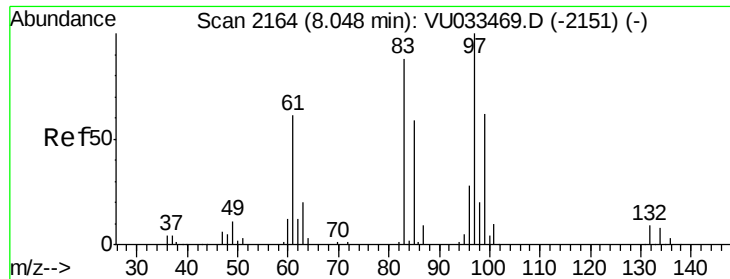
Tgt Ion: 75 Resp: 29602

Ion Ratio Lower Upper

75 100

77 32.6 22.3 41.5

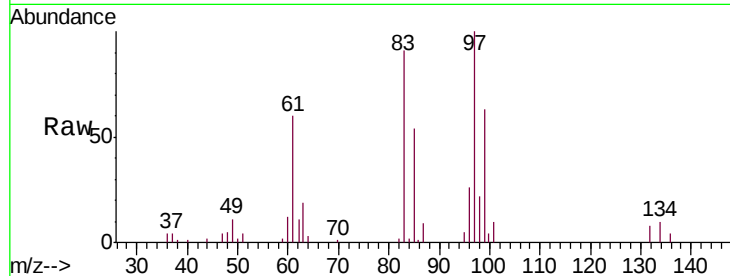




#45
 1,1,2-Trichloroethane
 Concen: 9.994 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01034

Tgt Ion:	97	Resp:	22952
Ion	Ratio	Lower	Upper
97	100		
99	63.1	43.3	80.5
83	90.8	61.3	113.9
85	53.7	41.0	76.2



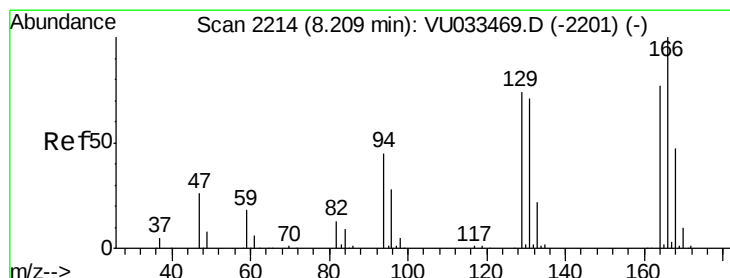
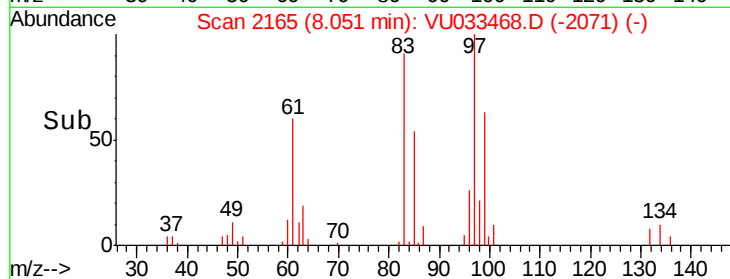
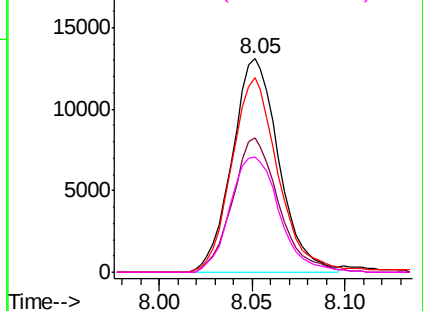
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

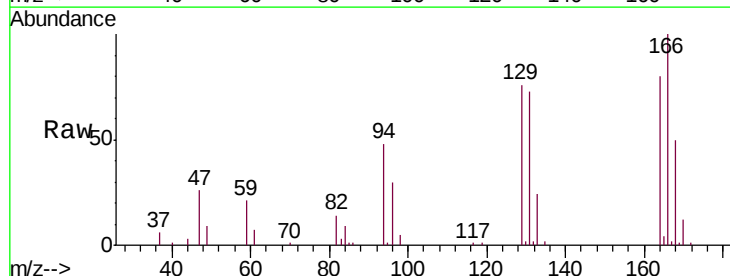
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 10.102 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

Tgt Ion:	164	Resp:	18643
Ion	Ratio	Lower	Upper
164	100		
129	94.3	66.6	123.8
131	90.9	63.9	118.7
166	124.5	90.5	168.1



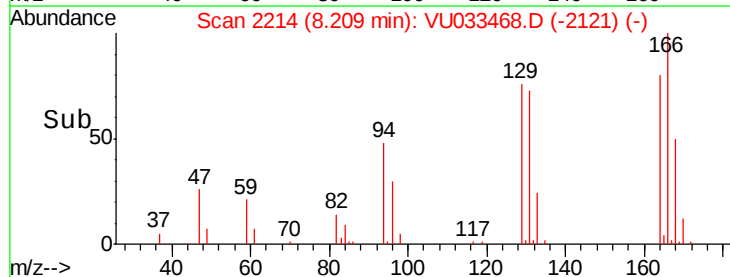
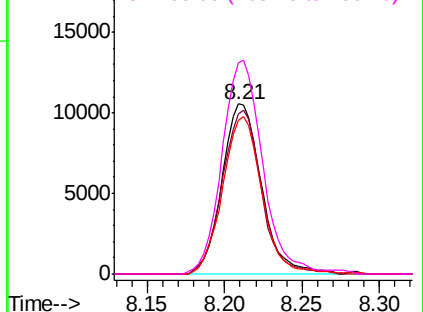
Abundance

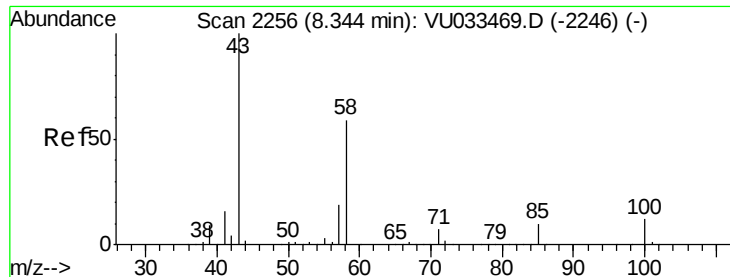
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 16.957 ug/L

RT: 8.35 min Scan# 2257

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD01034

Tgt Ion: 43 Resp: 45264

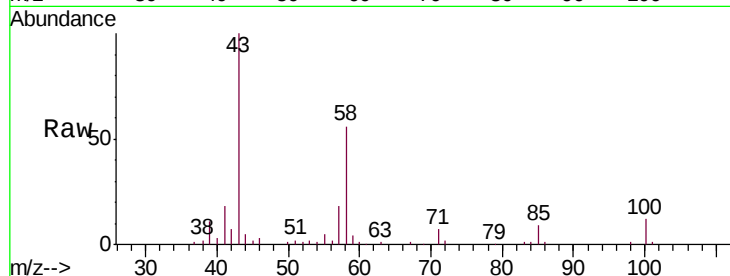
Ion Ratio Lower Upper

43 100

58 53.2 46.6 69.8

57 18.1 16.0 24.0

100 12.3 9.5 14.3

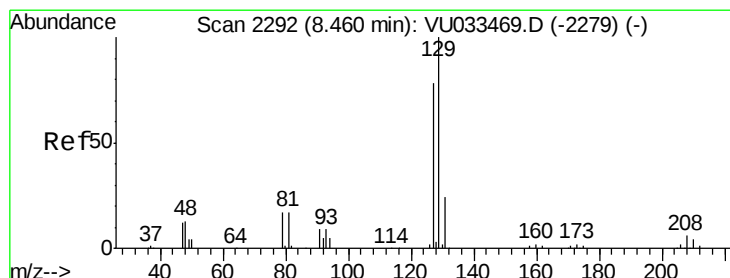
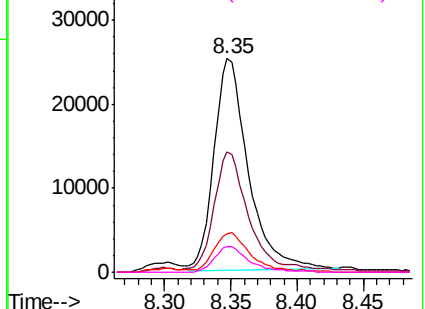
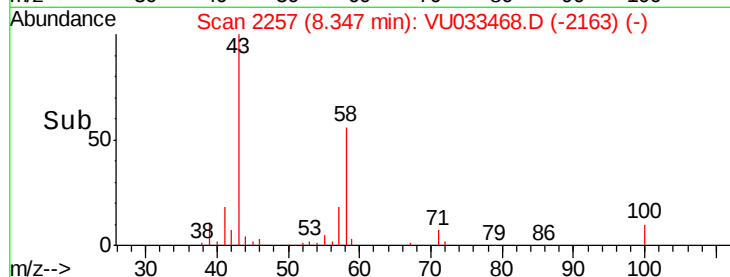


Abundance Ion 43.00 (42.70 to 43.70): VU033468.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU033468.D (-2163) (-)

Ion 57.00 (56.70 to 57.70): VU033468.D (-2163) (-)

Ion 100.00 (99.70 to 100.70): VU033468.D (-2163) (-)



#49

Dibromochloromethane

Concen: 9.560 ug/L

RT: 8.46 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VU033468.D

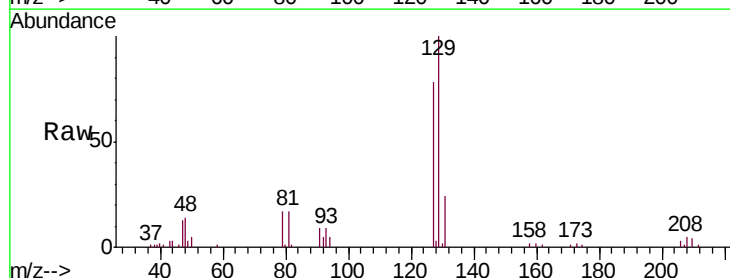
Acq: 29 Jul 2019 12:11

Tgt Ion: 129 Resp: 24853

Ion Ratio Lower Upper

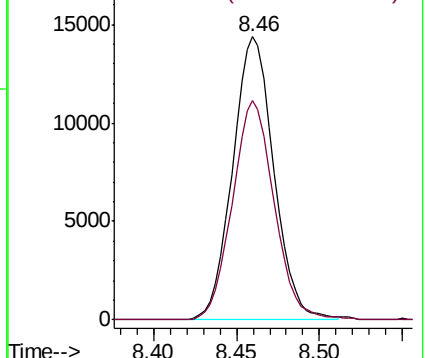
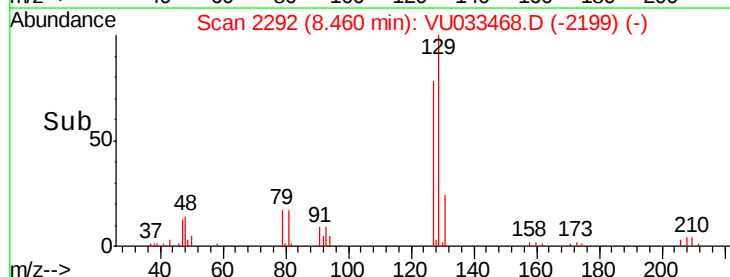
129 100

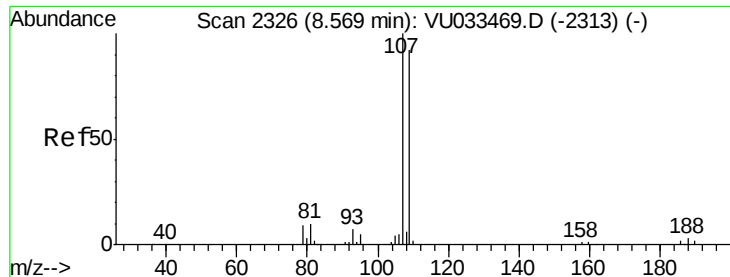
127 77.7 54.5 101.1



Abundance Ion 129.00 (128.70 to 129.70): VU033468.D (-2199) (-)

Ion 127.00 (126.70 to 127.70): VU033468.D (-2199) (-)

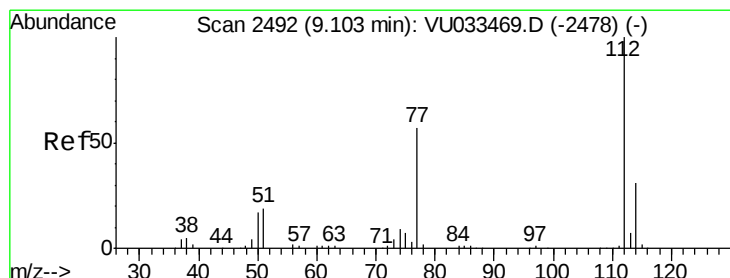
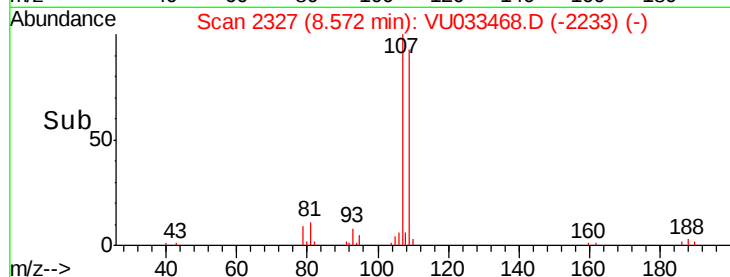
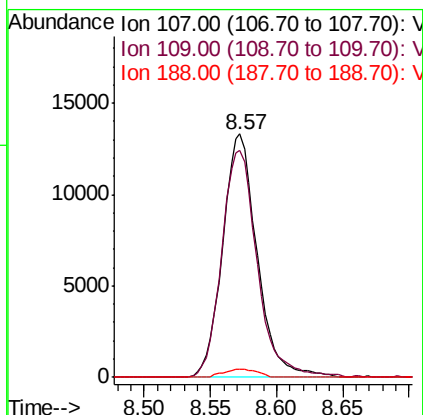
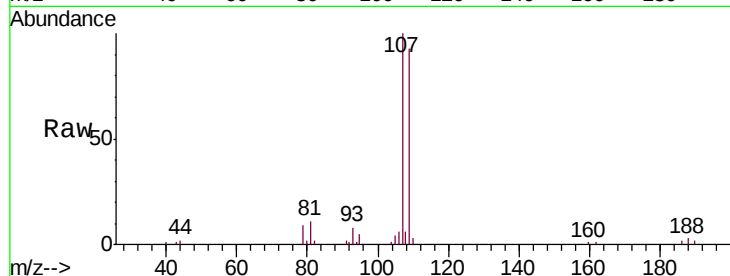




#50
1,2-Dibromoethane
Concen: 9.624 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

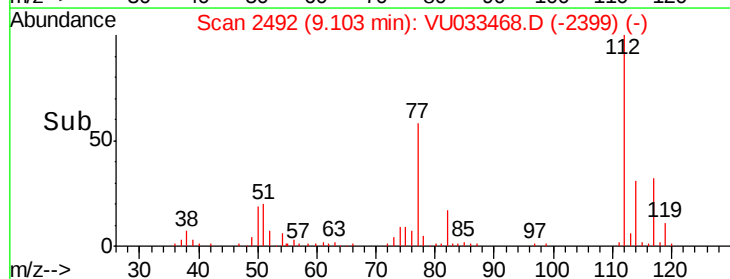
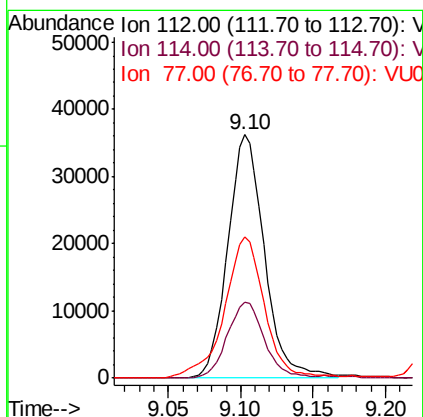
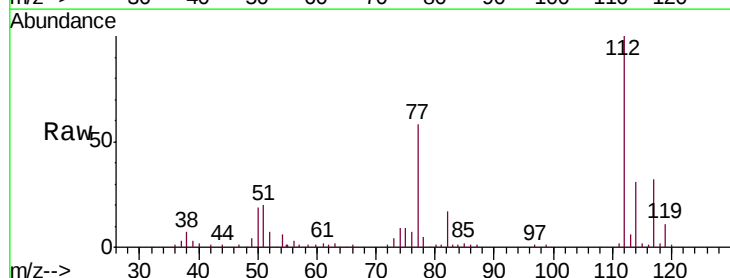
Instrument :
MSVOA_U
ClientSampleId :
VSTD01034

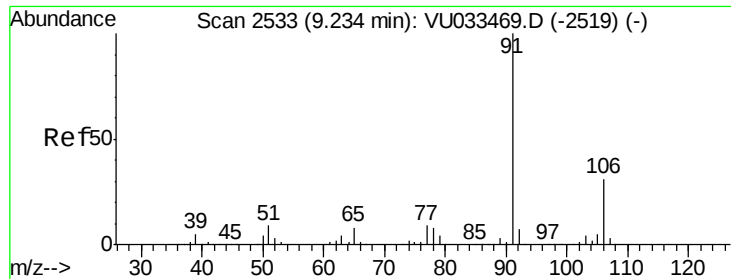
Tgt Ion:107 Resp: 24123
Ion Ratio Lower Upper
107 100
109 93.2 64.7 120.1
188 3.5 2.8 4.2



#51
Chlorobenzene
Concen: 9.960 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

Tgt Ion:112 Resp: 63568
Ion Ratio Lower Upper
112 100
114 31.0 21.9 40.7
77 57.9 46.1 69.1





#52

Ethylbenzene

Concen: 9.113 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

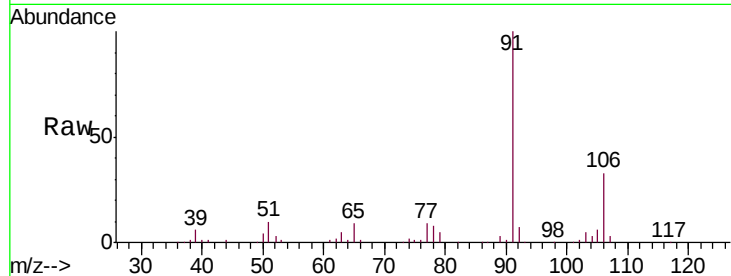
VSTD01034

Tgt Ion: 91 Resp: 97236

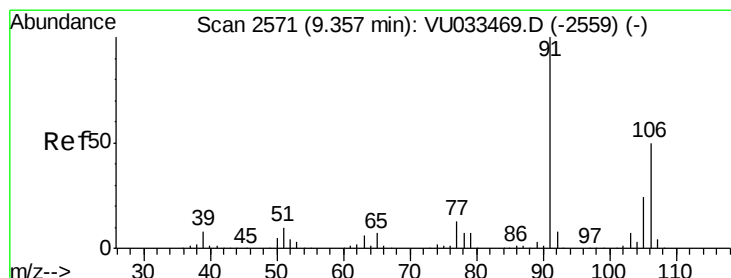
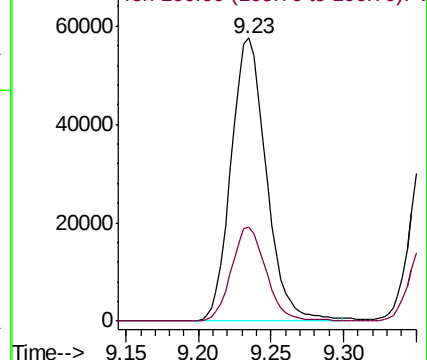
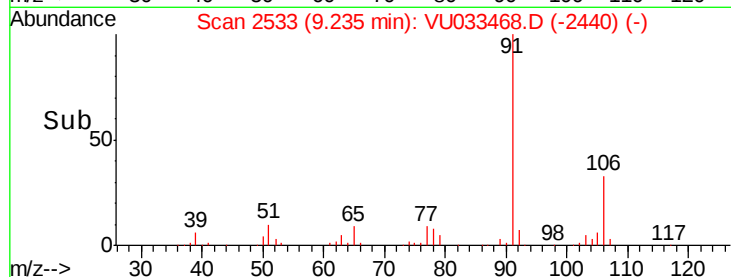
Ion Ratio Lower Upper

91 100

106 33.0 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU033468.D (-2440) (-)



#53

m,p-Xylene

Concen: 8.644 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033468.D

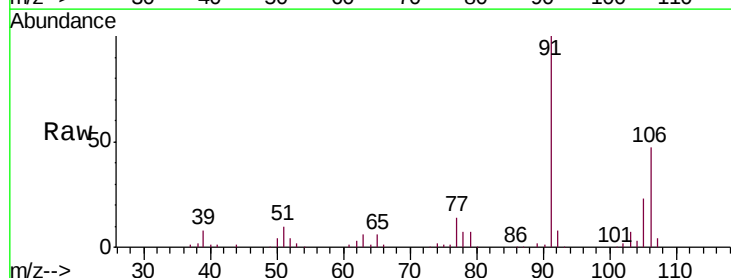
Acq: 29 Jul 2019 12:11

Tgt Ion: 106 Resp: 35553

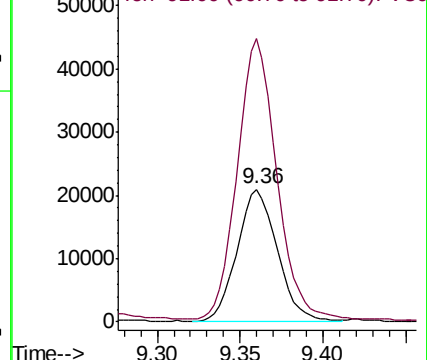
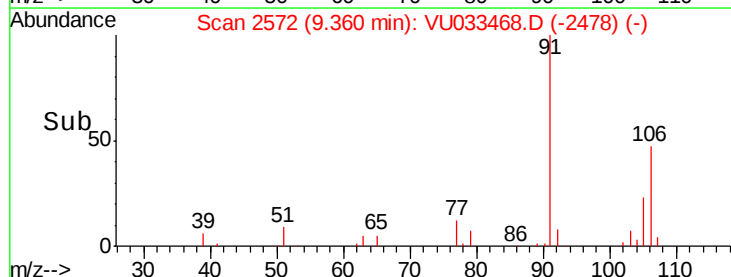
Ion Ratio Lower Upper

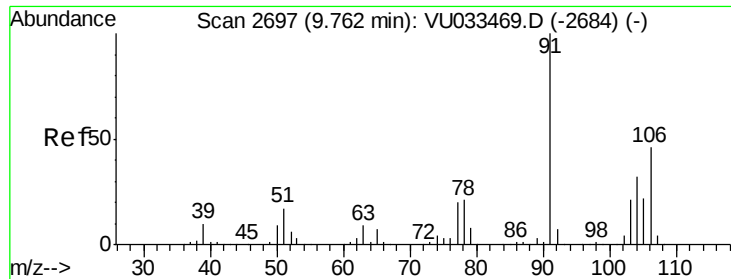
106 100

91 213.9 140.7 261.3



Abundance Ion 106.00 (105.70 to 106.70): VU033468.D (-2478) (-)





#54

o-xylene

Concen: 8.793 ug/L

RT: 9.77 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

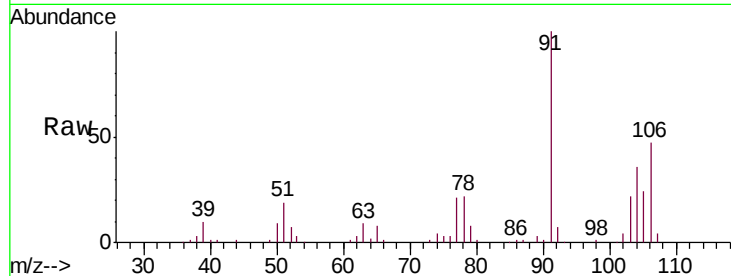
VSTD01034

Tgt Ion:106 Resp: 34957

Ion Ratio Lower Upper

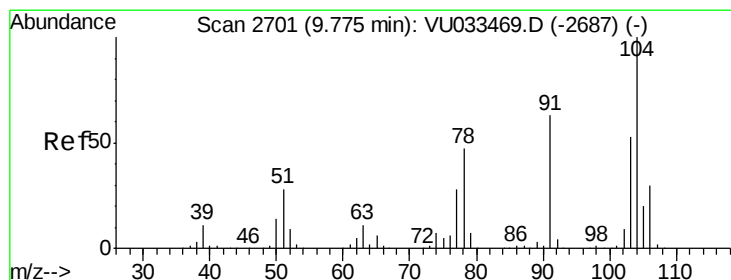
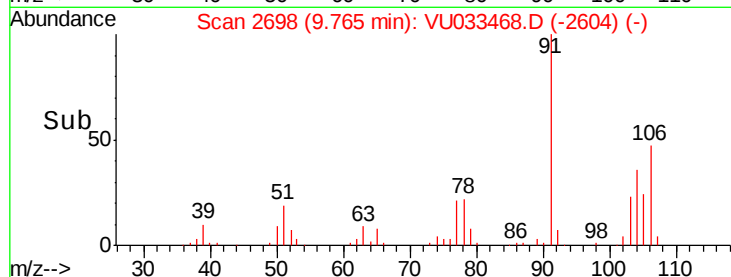
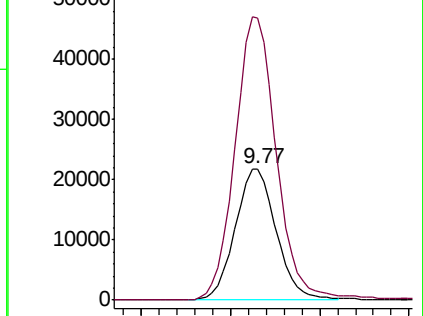
106 100

91 214.9 151.1 280.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 8.540 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033468.D

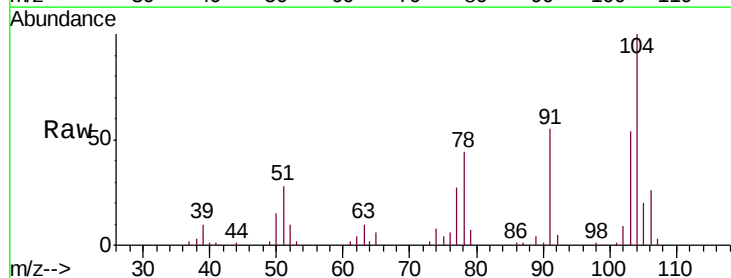
Acq: 29 Jul 2019 12:11

Tgt Ion:104 Resp: 58839

Ion Ratio Lower Upper

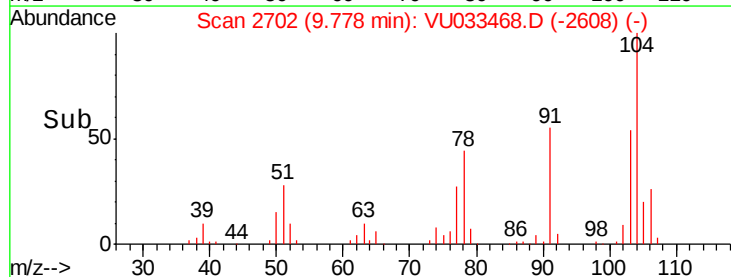
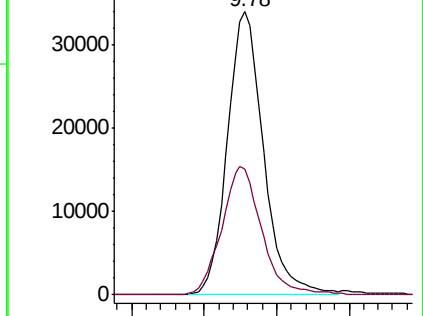
104 100

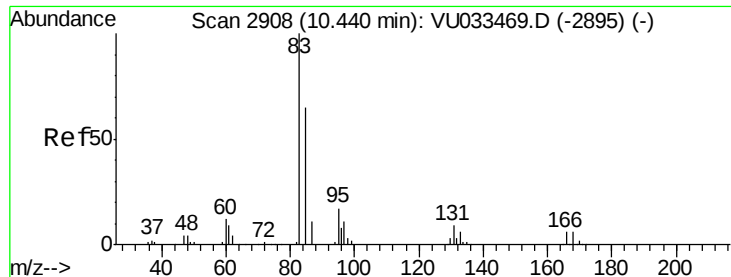
78 44.3 32.6 60.5



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: 10.166 ug/L

RT: 10.44 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD01034

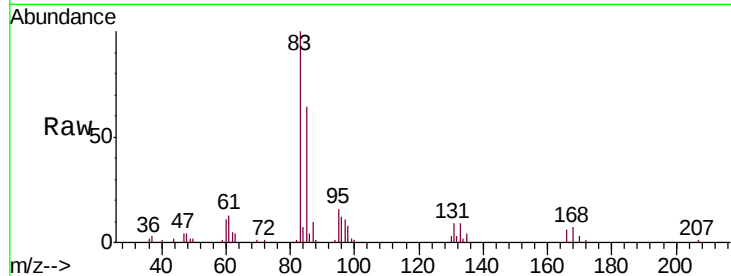
Tgt Ion: 83 Resp: 40500

Ion Ratio Lower Upper

83 100

85 64.2 45.9 85.3

131 9.1 7.8 11.8

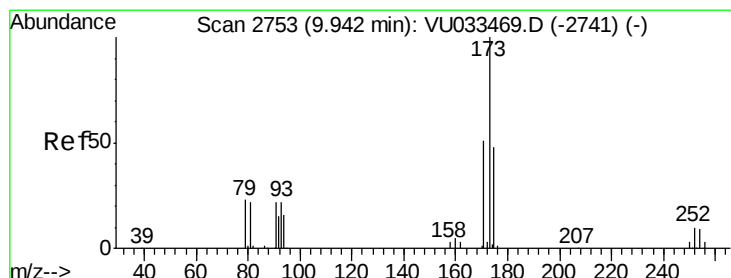
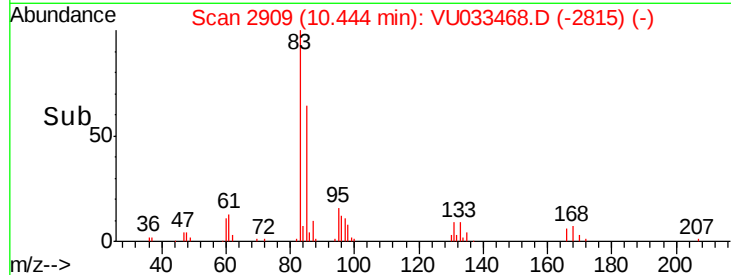


Abundance Ion 83.00 (82.70 to 83.70): VU033468.D (-2895) (-)

Ion 85.00 (84.70 to 85.70): VU033468.D (-2895) (-)

Ion 131.00 (130.70 to 131.70): VU033468.D (-2895) (-)

Time-->



#59

Bromoform

Concen: 9.917 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

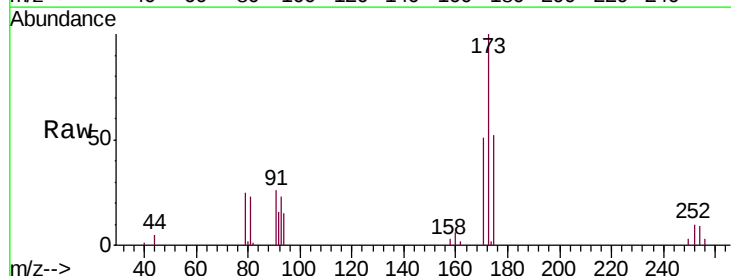
Tgt Ion: 173 Resp: 17940

Ion Ratio Lower Upper

173 100

175 50.0 38.1 57.1

254 9.3 7.3 10.9

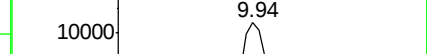
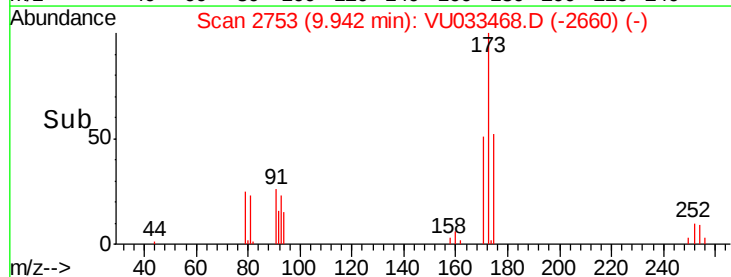


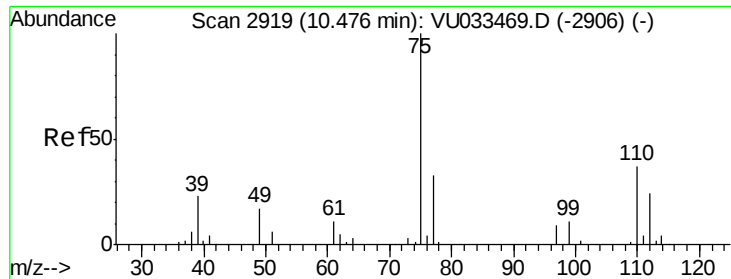
Abundance Ion 173.00 (172.70 to 173.70): VU033468.D (-2660) (-)

Ion 175.00 (174.70 to 175.70): VU033468.D (-2660) (-)

Ion 254.00 (253.70 to 254.70): VU033468.D (-2660) (-)

Time-->

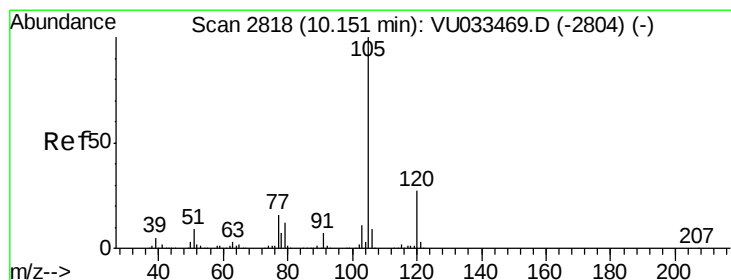
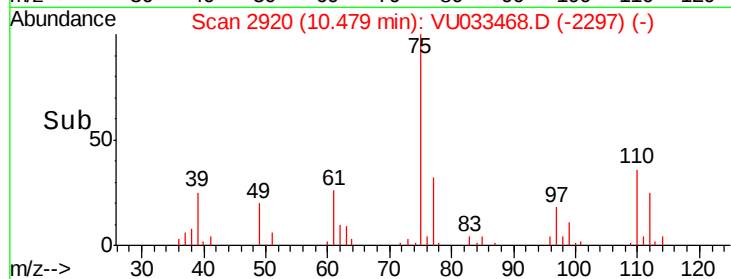
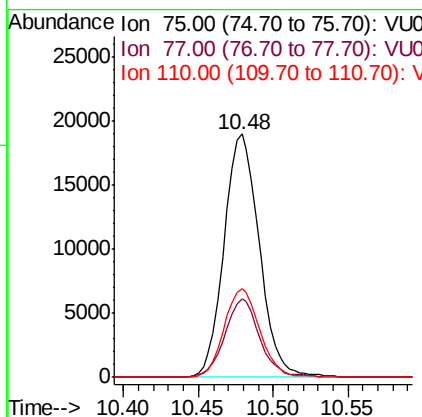
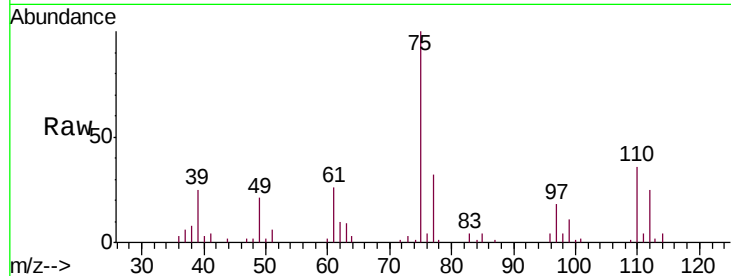




#60
 1,2,3-Trichloropropane
 Concen: 10.680 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

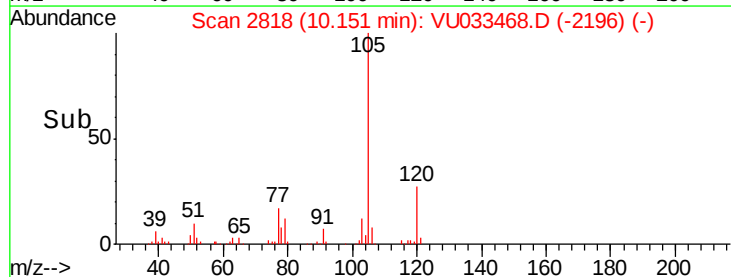
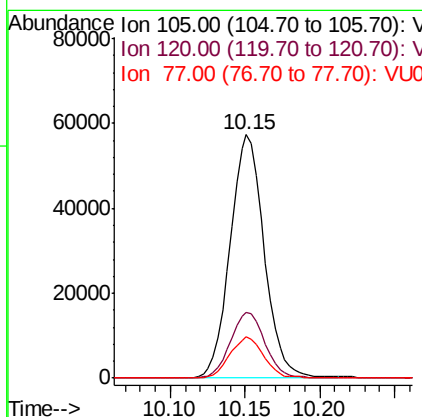
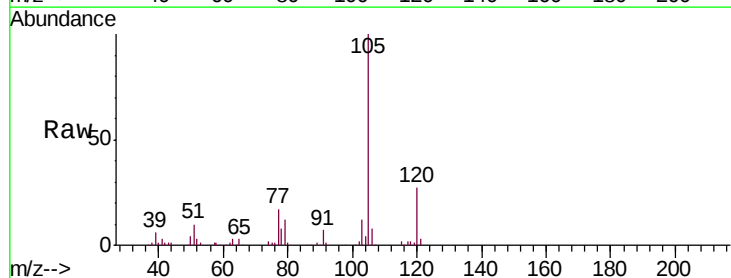
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01034

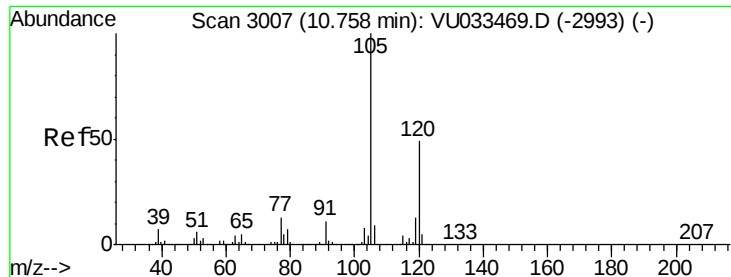
Tgt Ion: 75 Resp: 31282
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.9 38.9
 110 36.5 30.2 45.4



#61
 Isopropylbenzene
 Concen: 9.430 ug/L
 RT: 10.15 min Scan# 2818
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

Tgt Ion: 105 Resp: 90840
 Ion Ratio Lower Upper
 105 100
 120 27.3 21.7 32.5
 77 16.8 12.6 19.0





#62

1,3,5-Trimethylbenzene

Concen: 8.641 ug/L

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

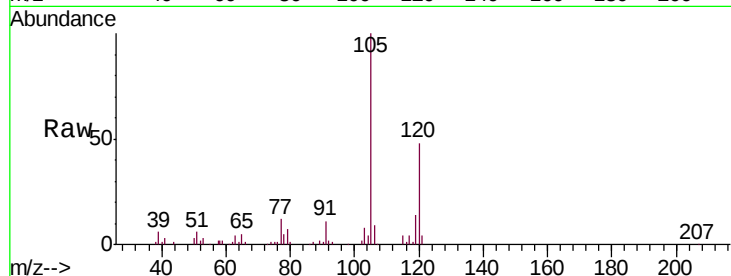
VSTD01034

Tgt Ion:105 Resp: 69644

Ion Ratio Lower Upper

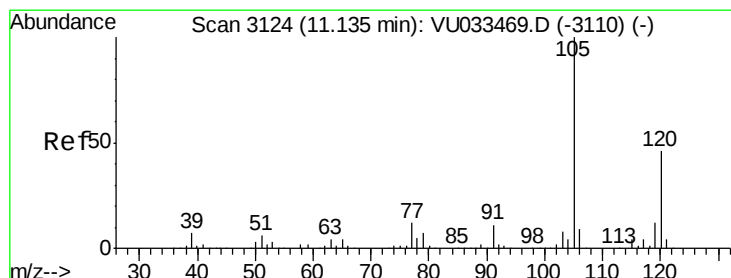
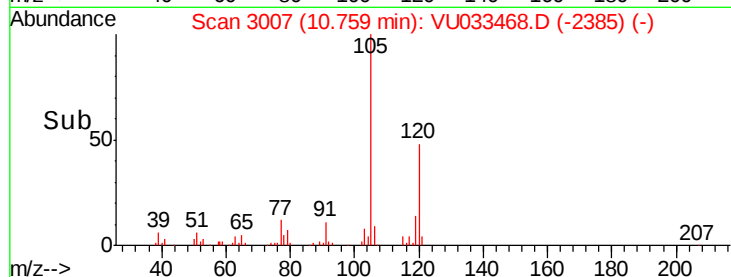
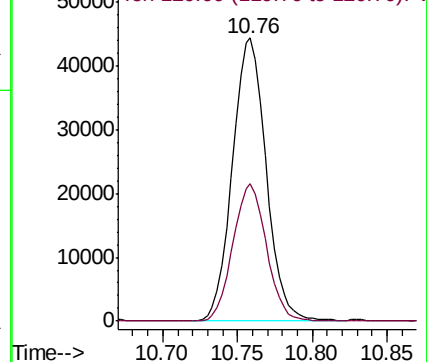
105 100

120 48.2 39.0 58.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 8.447 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033468.D

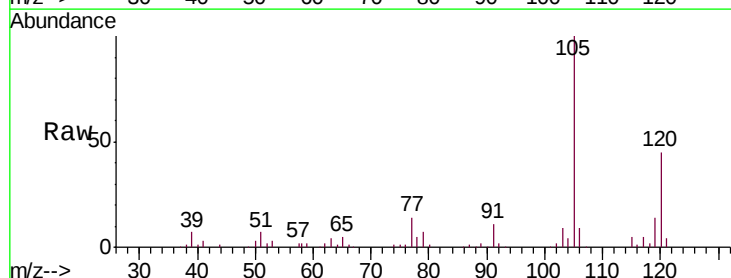
Acq: 29 Jul 2019 12:11

Tgt Ion:105 Resp: 68597

Ion Ratio Lower Upper

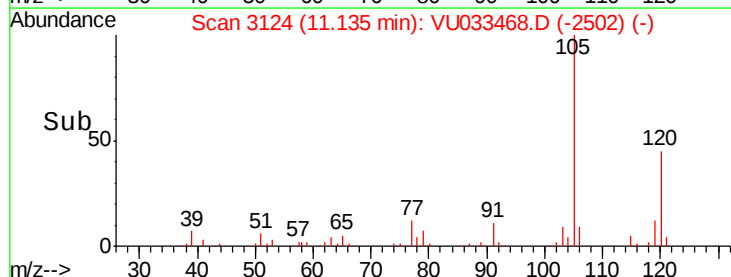
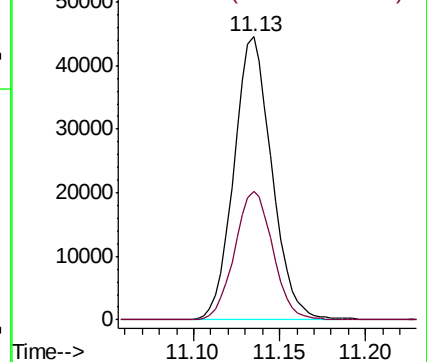
105 100

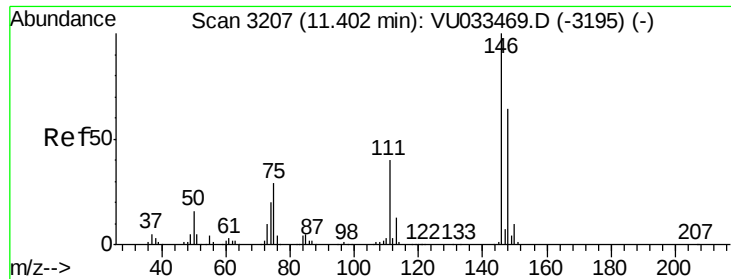
120 45.8 36.6 55.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 10.302 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD01034

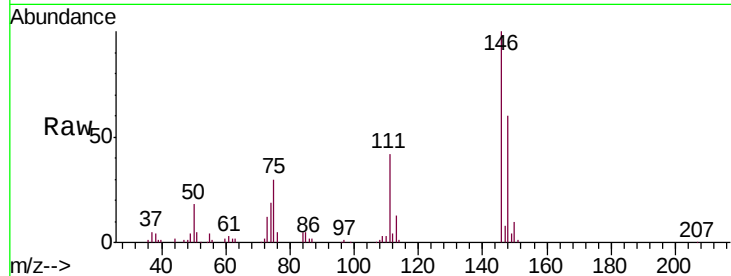
Tgt Ion:146 Resp: 48085

Ion Ratio Lower Upper

146 100

111 41.7 28.2 52.4

148 60.4 44.4 82.5

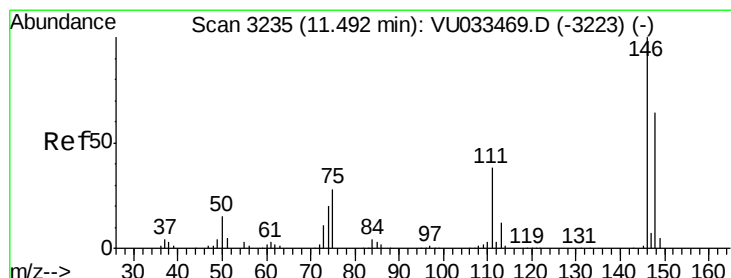
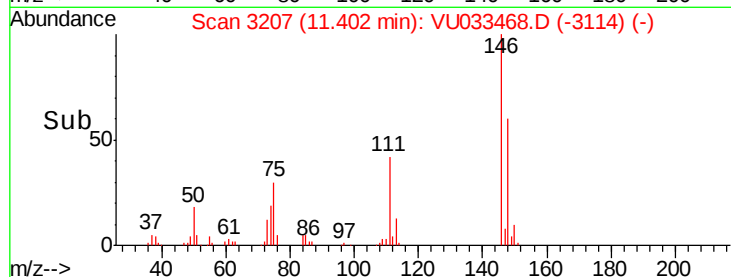
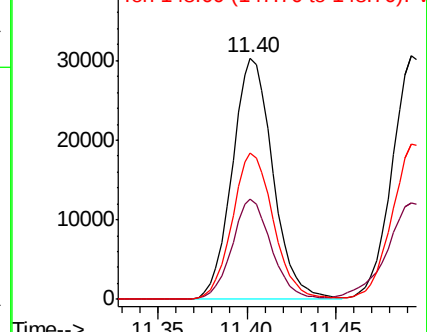


Abundance

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: 10.623 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

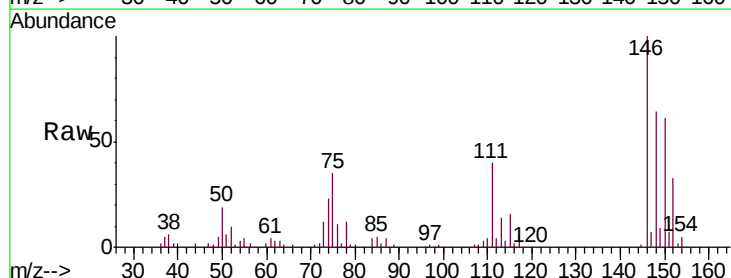
Tgt Ion:146 Resp: 50045

Ion Ratio Lower Upper

146 100

111 39.9 27.0 50.2

148 63.8 44.7 82.9

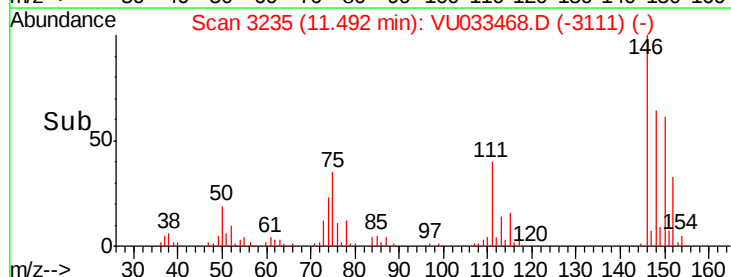
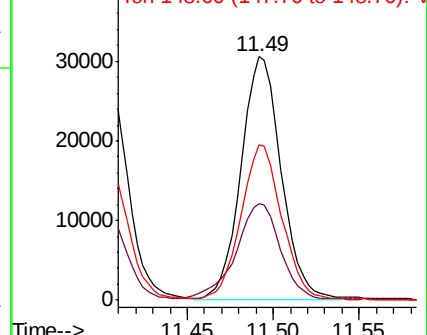


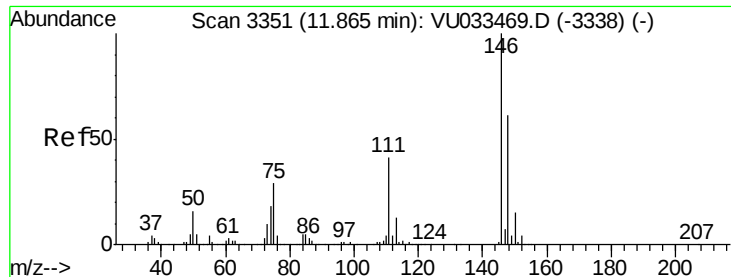
Abundance

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: 10.148 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD01034

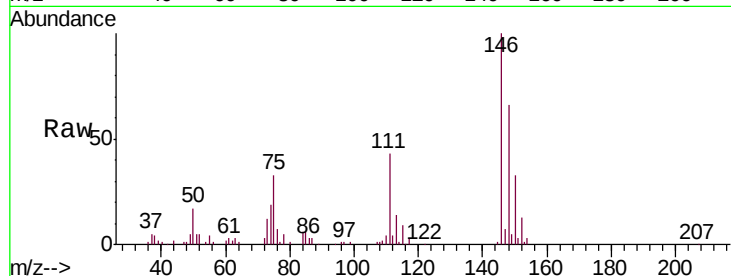
Tgt Ion:146 Resp: 48226

Ion Ratio Lower Upper

146 100

111 43.3 32.8 49.2

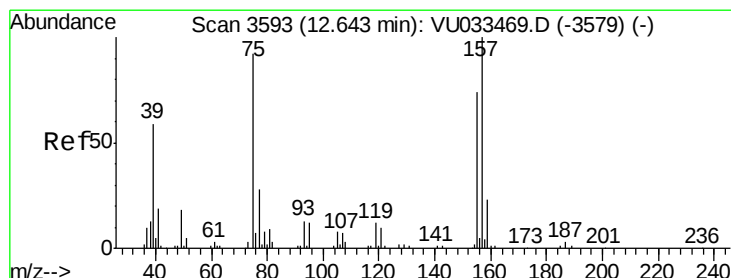
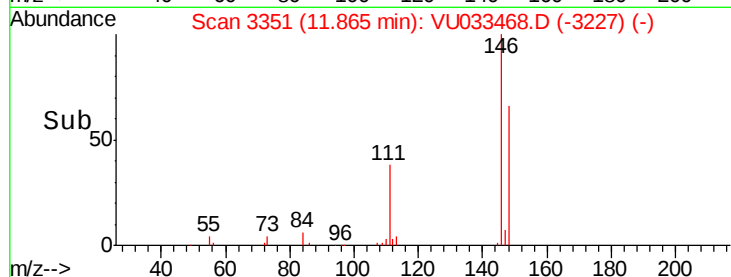
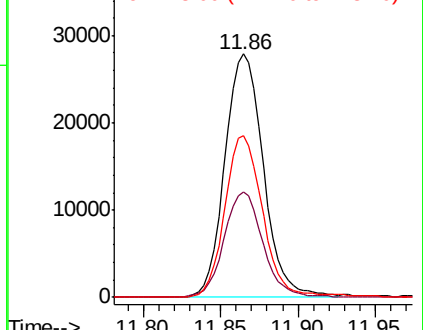
148 66.4 49.2 73.8



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



#68

1,2-Dibromo-3-chloropropane

Concen: 9.745 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. 0.00 min

Lab File: VU033468.D

Acq: 29 Jul 2019 12:11

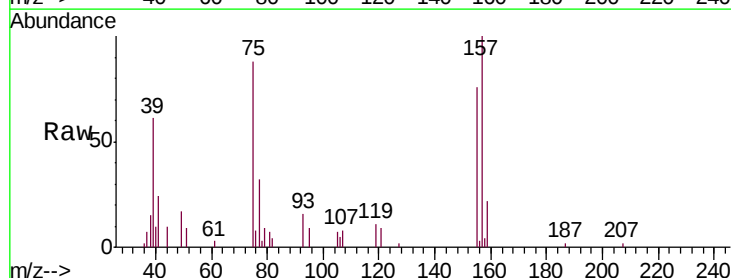
Tgt Ion: 75 Resp: 8094

Ion Ratio Lower Upper

75 100

155 86.5 64.8 97.2

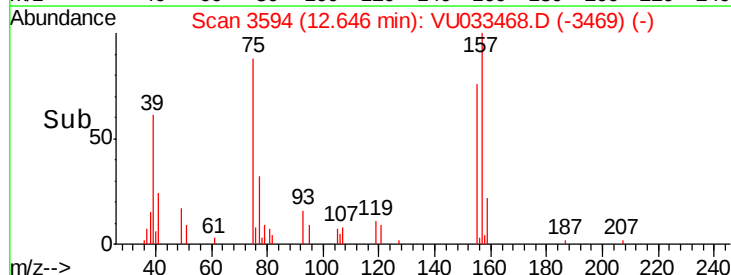
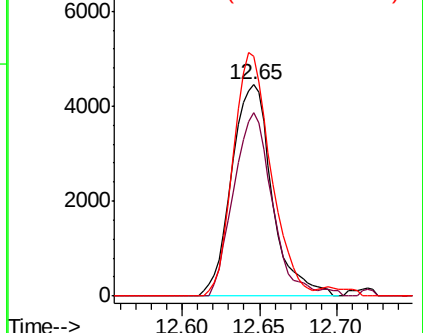
157 113.4 87.1 130.7

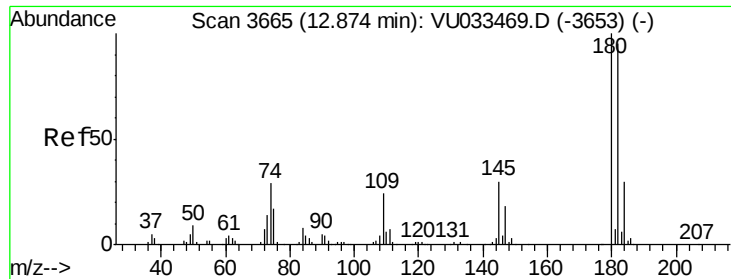


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

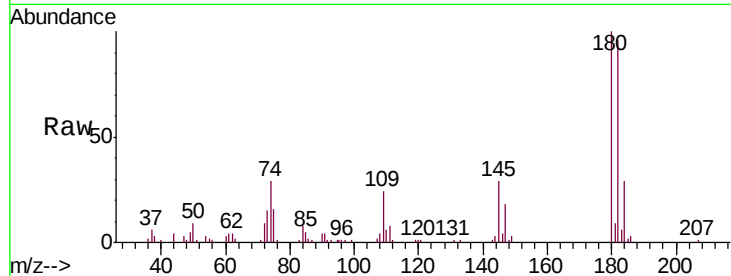




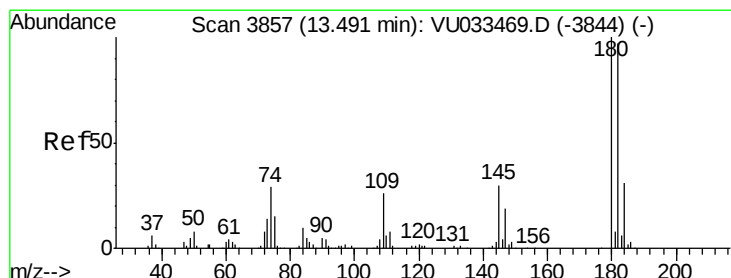
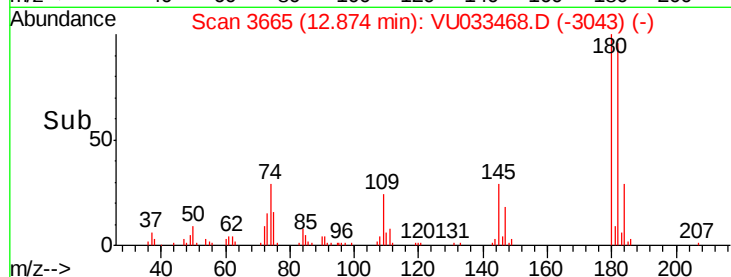
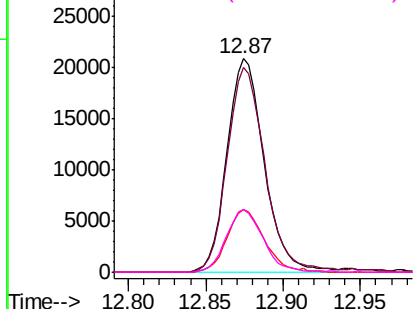
#69
 1,3,5-Trichlorobenzene
 Concen: 9.906 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01034

Tgt Ion:180 Resp: 34908
 Ion Ratio Lower Upper
 180 100
 182 97.1 76.2 114.4
 184 28.7 24.1 36.1
 145 29.0 23.7 35.5

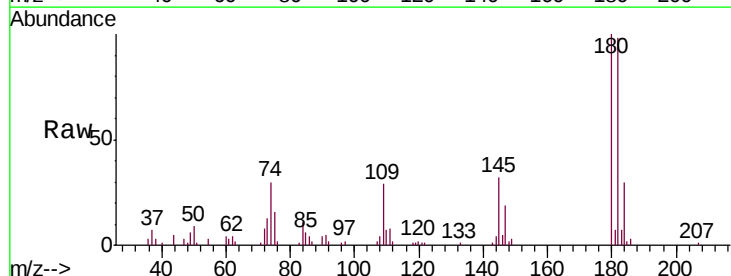


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

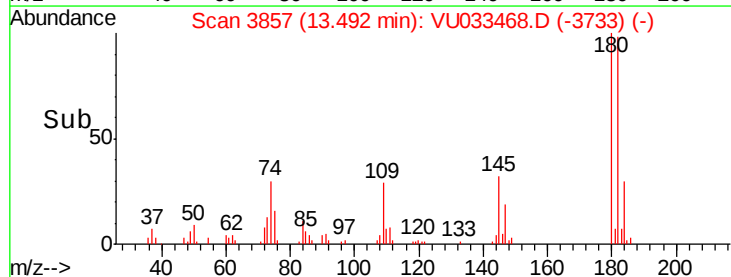
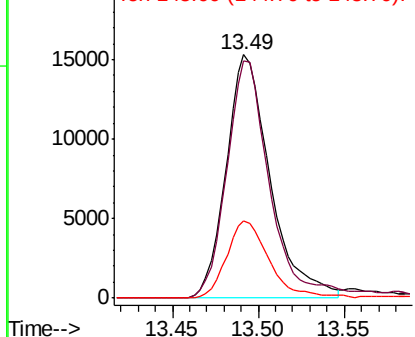


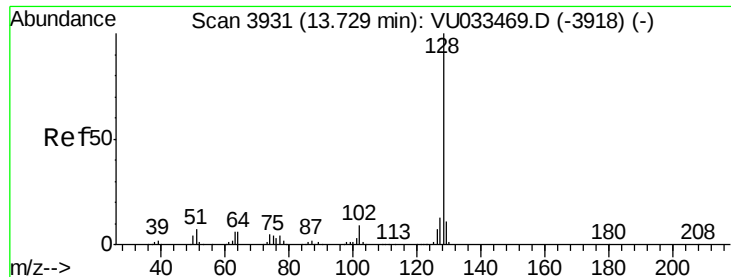
#70
 1,2,4-trichlorobenzene
 Concen: 9.227 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033468.D
 Acq: 29 Jul 2019 12:11

Tgt Ion:180 Resp: 27354
 Ion Ratio Lower Upper
 180 100
 182 92.0 77.5 116.3
 145 30.5 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

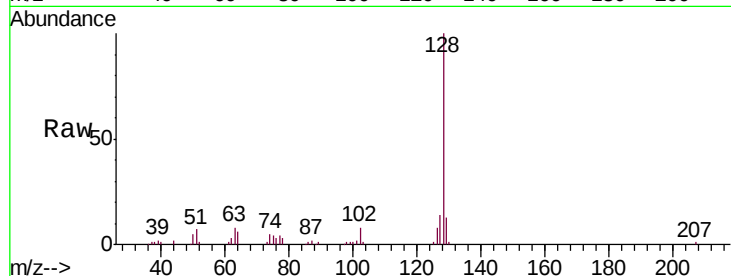




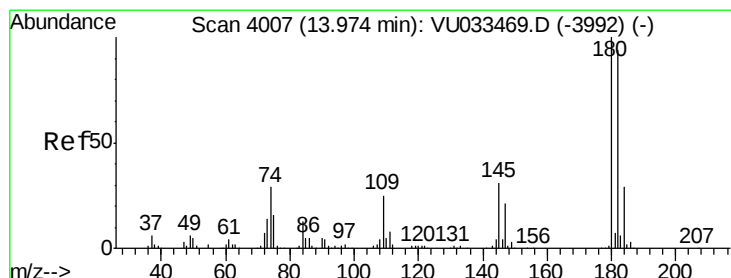
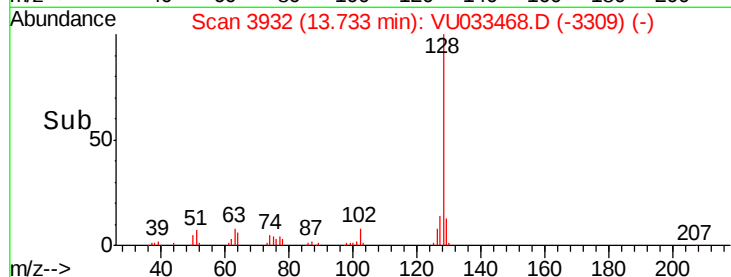
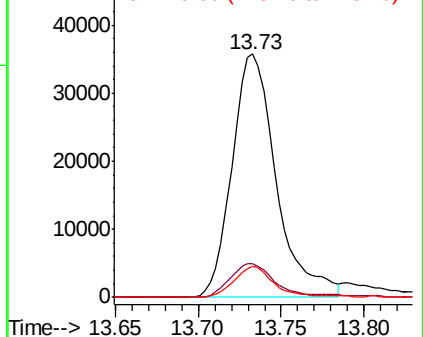
#71
Naphthalene
Concen: 7.355 ug/L
RT: 13.73 min Scan# 3932
Delta R.T. 0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD01034

Tgt Ion:128 Resp: 66504
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 11.3 8.7 13.1

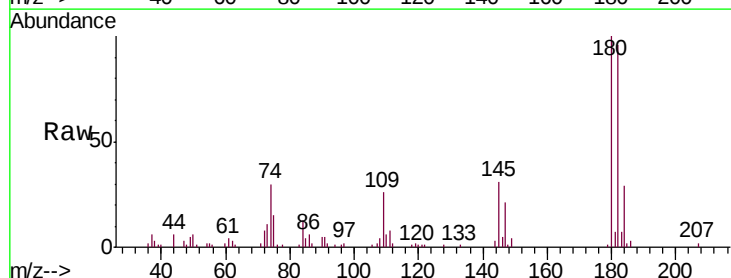


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 8.935 ug/L
RT: 13.98 min Scan# 4008
Delta R.T. 0.00 min
Lab File: VU033468.D
Acq: 29 Jul 2019 12:11

Tgt Ion:180 Resp: 28706
Ion Ratio Lower Upper
180 100
182 96.5 76.4 114.6
145 32.6 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

