

Data File : VU030251.D
Acq On : 21 Mar 2019 09:29
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Quant Time: Mar 22 04:03:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	570295	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	551224	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	286563	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	175766	45.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.16%
7) Chloroethane-d5	1.68	69	144799	46.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.92%
11) 1,1-Dichloroethene-d2	2.27	63	327987	46.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.24%
21) 2-Butanone-d5	4.17	46	274931	96.10	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.10%
24) Chloroform-d	4.64	84	331347	46.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.64%
26) 1,2-Dichloroethane-d4	5.31	65	186368	46.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.34%
32) Benzene-d6	5.34	84	693491	47.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.48%
36) 1,2-Dichloropropane-d6	6.33	67	210741	46.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.78%
41) Toluene-d8	7.56	98	649454	47.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.10%
43) trans-1,3-Dichloropropene-	7.85	79	104253	47.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.28%
47) 2-Hexanone-d5	8.31	63	227353	97.54	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.54%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	325280	47.18	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.36%
64) 1,2-Dichlorobenzene-d4	11.85	152	263782	45.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	234113	48.486	ug/L	100
3) Chloromethane	1.33	50	222748	47.660	ug/L	98
5) Vinyl chloride	1.40	62	239776	48.329	ug/L	100
6) Bromomethane	1.62	94	117277	43.680	ug/L	98
8) Chloroethane	1.70	64	141172	48.126	ug/L	97
9) Trichlorofluoromethane	1.88	101	313618	49.776	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	192137	50.150	ug/L	99
12) 1,1-Dichloroethene	2.28	96	185087	48.646	ug/L	98
13) Acetone	2.32	43	320484	107.208	ug/L	99
14) Carbon disulfide	2.48	76	537765	47.322	ug/L	100
15) Methyl Acetate	2.61	43	209094	48.099	ug/L	99
16) Methylene chloride	2.70	84	207876	48.173	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	191937	47.868	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	571432	49.543	ug/L	100
19) 1,1-Dichloroethane	3.44	63	339463	49.221	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	216804	49.351	ug/L	99
22) 2-Butanone	4.26	43	363561	103.479	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	112648	47.910	ug/L	98
25) Chloroform	4.67	83	348857	48.553	ug/L	99
27) 1,2-Dichloroethane	5.40	62	252092	49.501	ug/L	99
29) Cyclohexane	4.99	56	307130	51.280	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	295981	49.823	ug/L	99
31) Carbon tetrachloride	5.13	117	257921	49.042	ug/L	100
33) Benzene	5.39	78	801860	50.420	ug/L	100
34) Trichloroethene	6.18	95	209331	49.939	ug/L	98
35) Methylcyclohexane	6.41	83	341888	52.014	ug/L	98
37) 1,2-Dichloropropane	6.43	63	202934	49.824	ug/L	99
38) Bromodichloromethane	6.75	83	261133	49.865	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	321220	49.155	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	556247	99.370	ug/L	99
42) Toluene	7.63	91	879200	50.791	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	291402	51.533	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	206251	49.331	ug/L	98
46) Tetrachloroethene	8.22	164	180337	50.919	ug/L	98
48) 2-Hexanone	8.36	43	466174	100.337	ug/L	100
49) Dibromochloromethane	8.47	129	235599	50.252	ug/L	98
50) 1,2-Dibromoethane	8.58	107	228817	49.364	ug/L	98
51) Chlorobenzene	9.12	112	565594	49.387	ug/L	99
52) Ethylbenzene	9.25	91	953217	50.707	ug/L	100
53) m,p-Xylene	9.37	106	372653	51.453	ug/L	97
54) o-xylene	9.77	106	365895	51.393	ug/L	99
55) Styrene	9.79	104	631414	52.344	ug/L	99
56) Isopropylbenzene	10.16	105	944648	51.320	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	348202	48.841	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	265565	48.242	ug/L	99
61) Bromoform	9.95	173	184632	49.892	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	455652	49.838	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	470252	49.587	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	463264	49.595	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	75012	48.031	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	363935	50.933	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	322662	51.064	ug/L	100
69) Naphthalene	13.74	128	934153	46.598	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	327095	49.611	ug/L	98

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

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Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

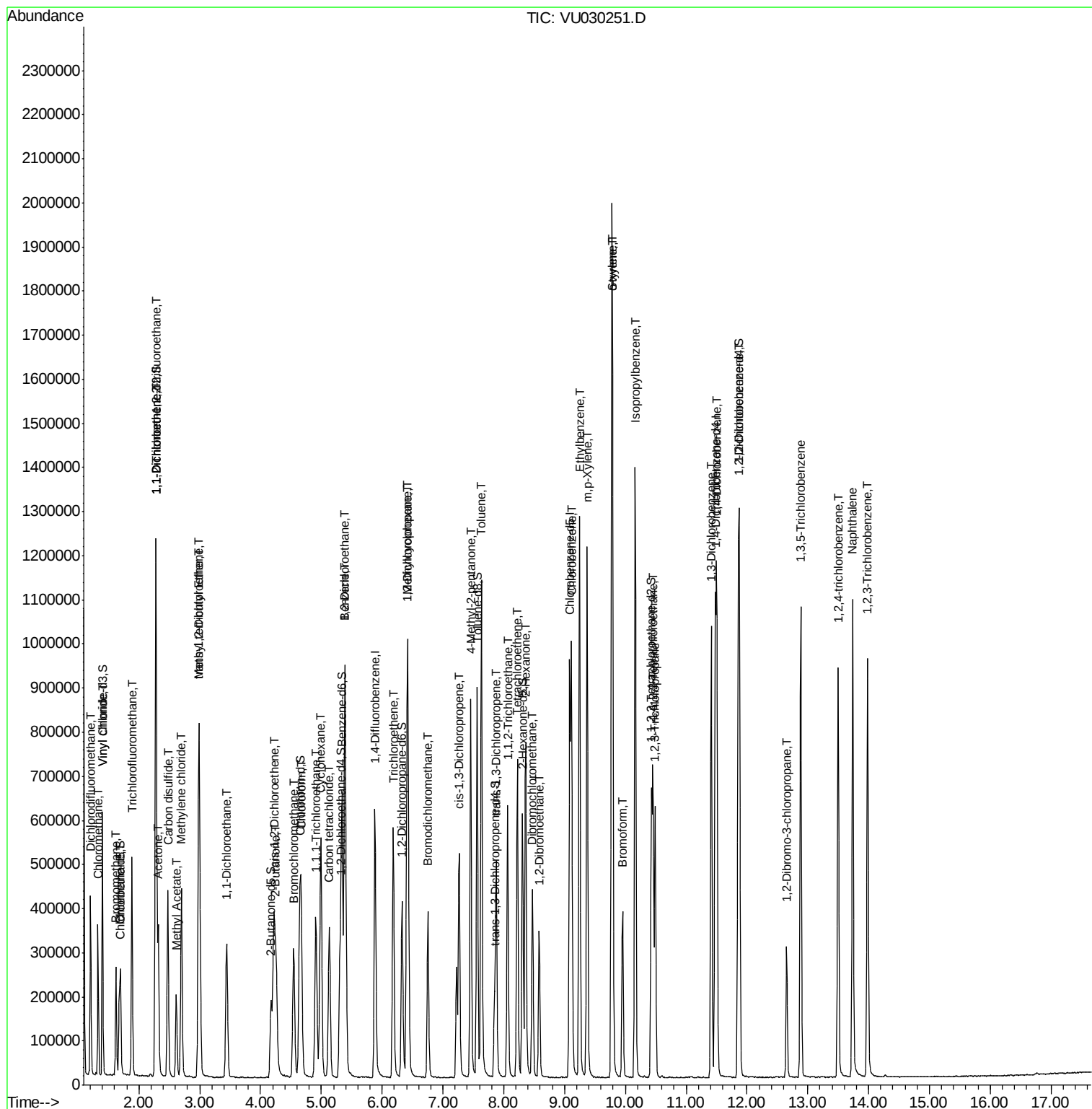
Quant Time: Mar 22 04:03:25 2019

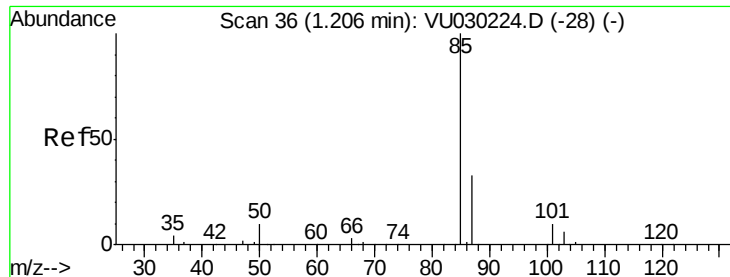
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMULM031919WMA.M

Quant Title : VOC Analysis

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 48.486 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

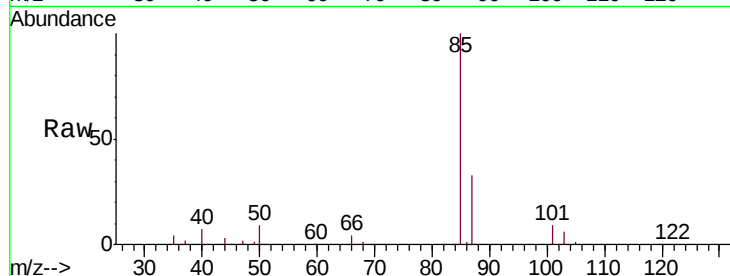
VSTD05050

Tgt Ion: 85 Resp: 234113

Ion Ratio Lower Upper

85 100

87 32.6 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU030224.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU030224.D (-28) (-)

1.21

250000

200000

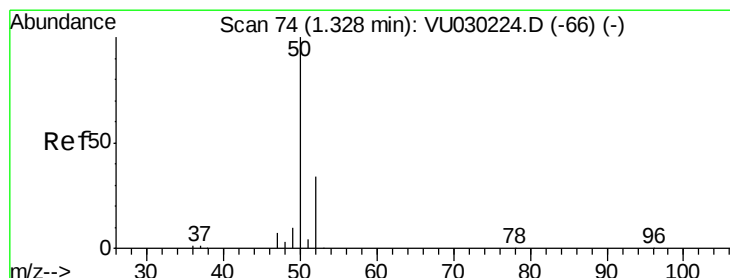
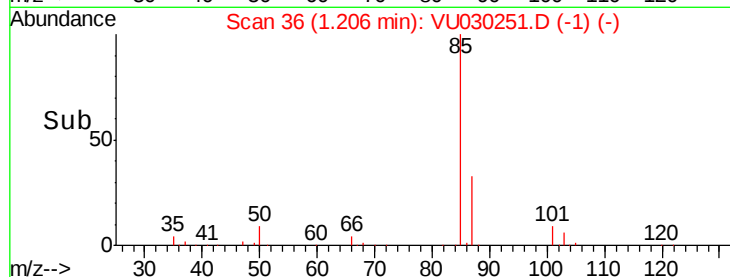
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 47.660 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU030251.D

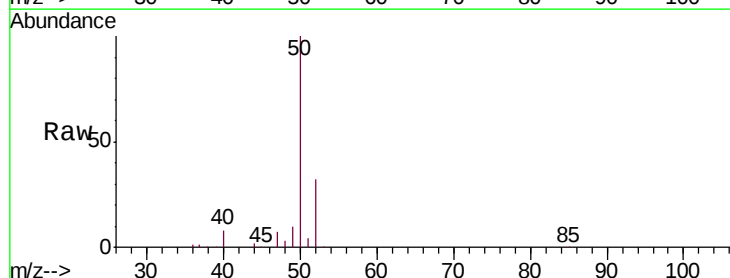
Acq: 21 Mar 2019 09:29

Tgt Ion: 50 Resp: 222748

Ion Ratio Lower Upper

50 100

52 32.4 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030224.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU030224.D (-66) (-)

1.33

250000

200000

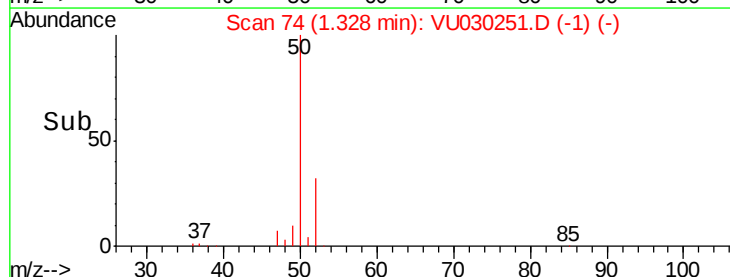
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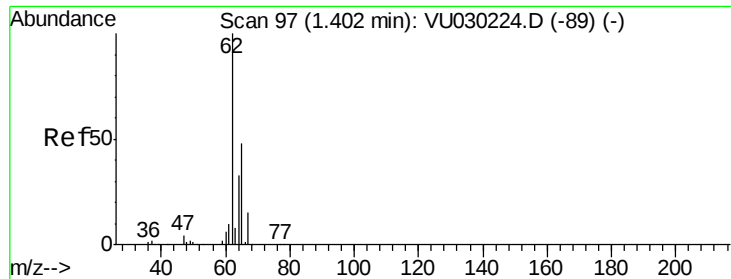
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 48.329 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

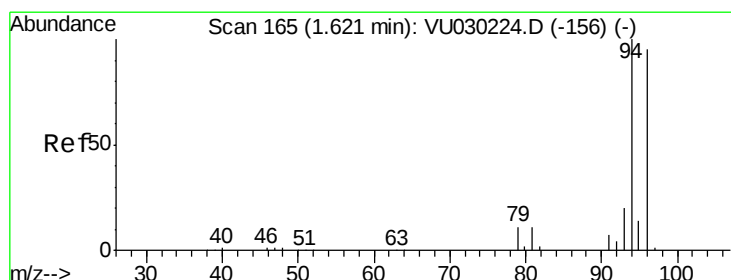
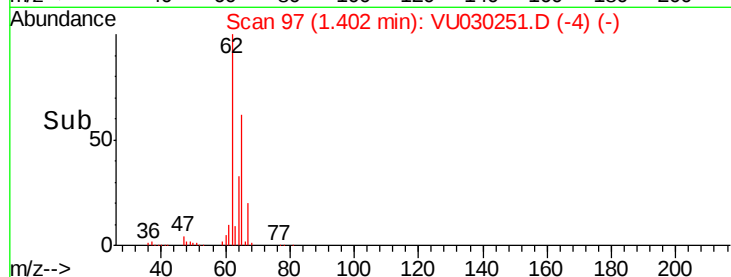
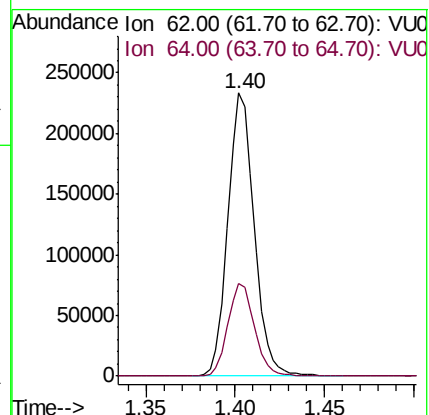
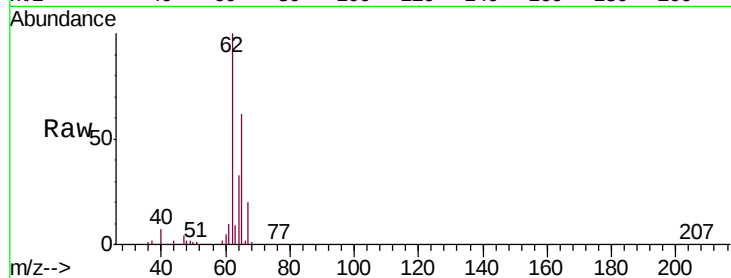
VSTD05050

Tgt Ion: 62 Resp: 239776

Ion Ratio Lower Upper

62 100

64 32.7 22.9 42.5



#6

Bromomethane

Concen: 43.680 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU030251.D

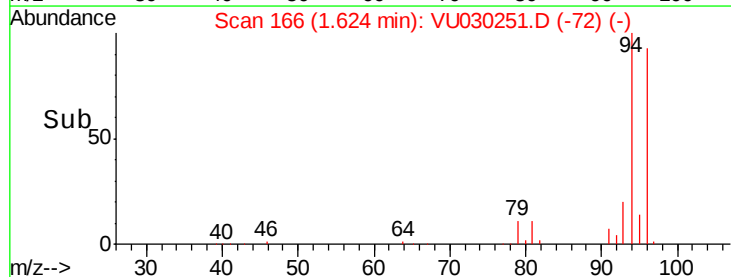
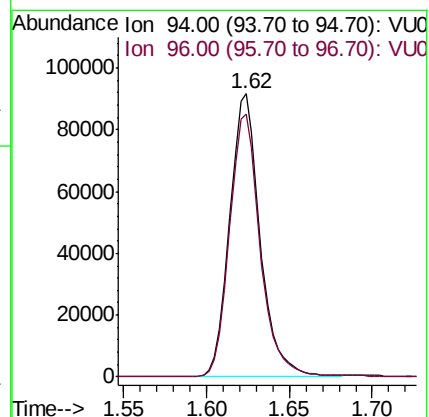
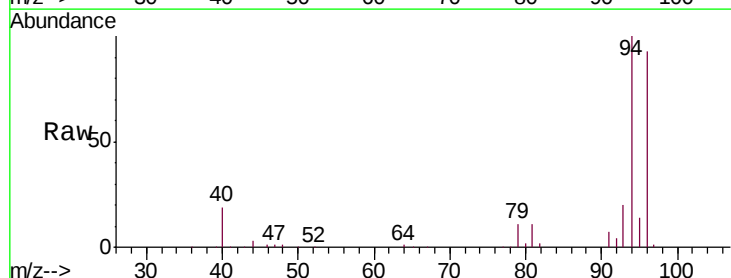
Acq: 21 Mar 2019 09:29

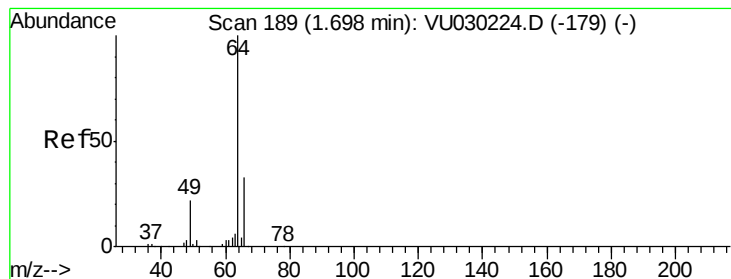
Tgt Ion: 94 Resp: 117277

Ion Ratio Lower Upper

94 100

96 93.1 66.6 123.6





#8

Chloroethane

Concen: 48.126 ug/L

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

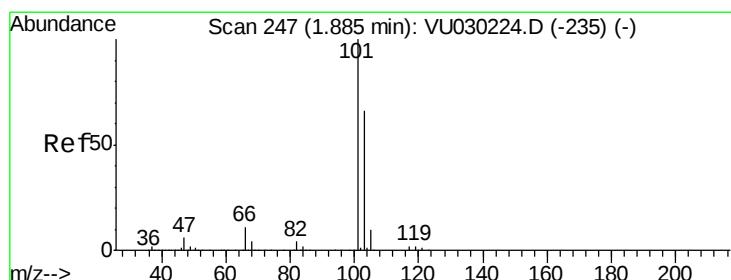
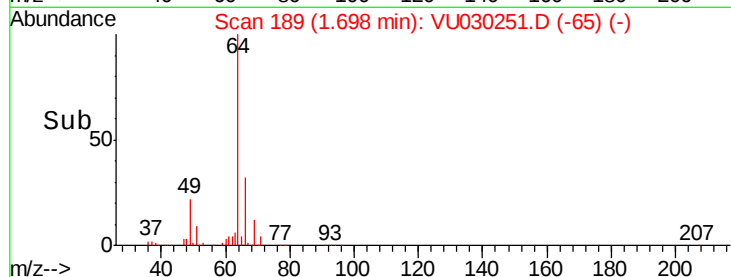
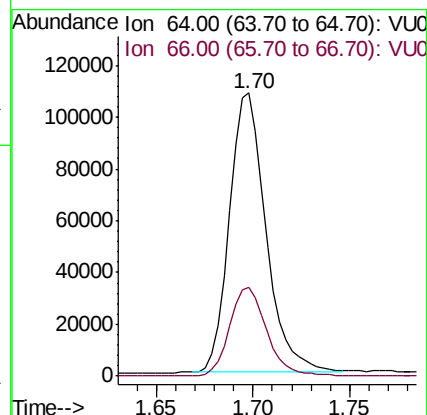
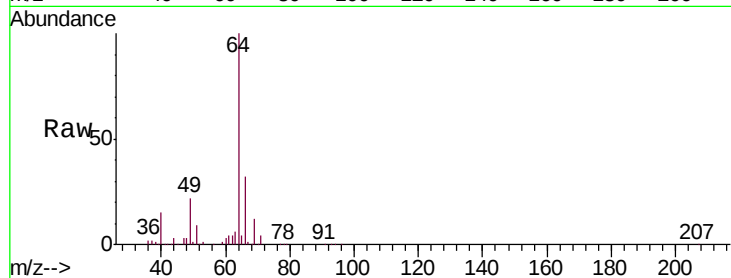
VSTD05050

Tgt Ion: 64 Resp: 141172

Ion Ratio Lower Upper

64 100

66 31.6 23.2 43.0



#9

Trichlorofluoromethane

Concen: 49.776 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU030251.D

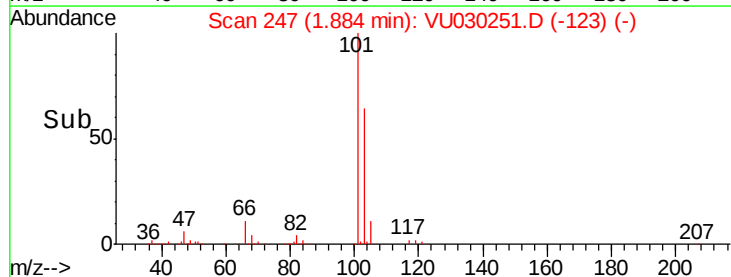
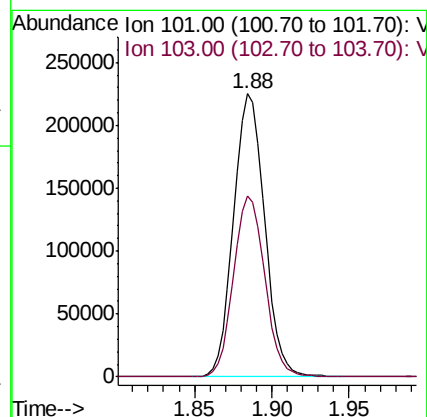
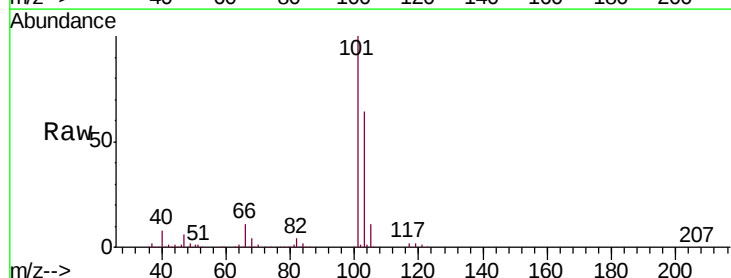
Acq: 21 Mar 2019 09:29

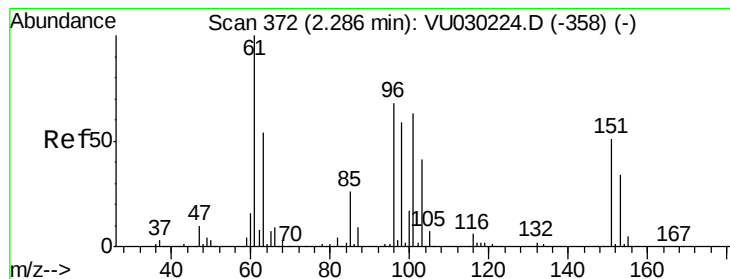
Tgt Ion: 101 Resp: 313618

Ion Ratio Lower Upper

101 100

103 64.3 51.6 77.4





#10

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

Concen: 50.150 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

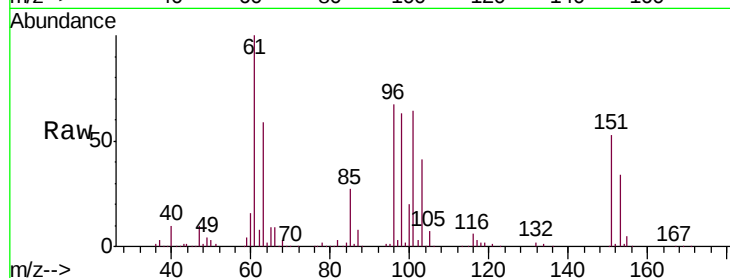
Tgt Ion: 101 Resp: 192137

Ion Ratio Lower Upper

101 100

85 41.3 32.5 48.7

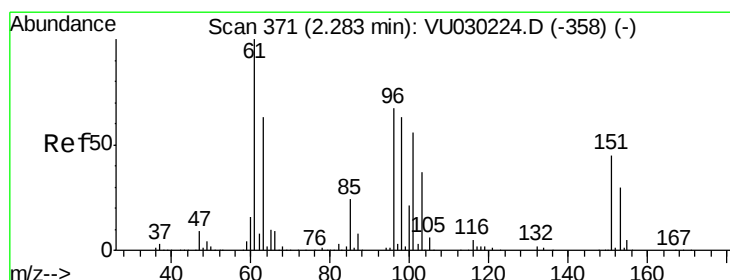
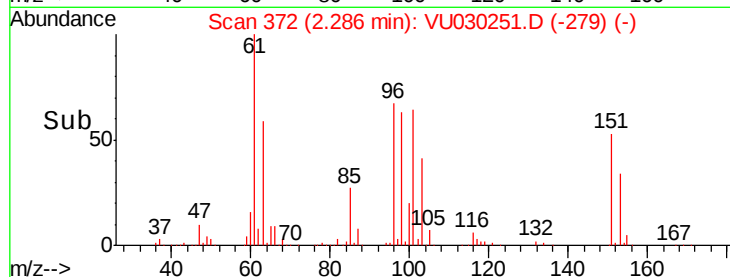
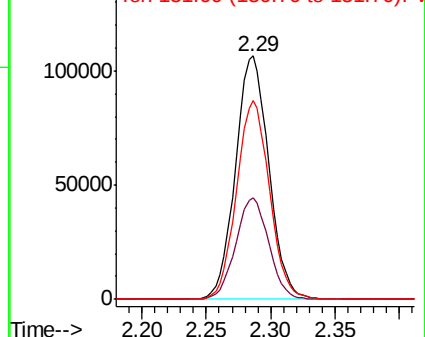
151 80.5 64.7 97.1



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: 48.646 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

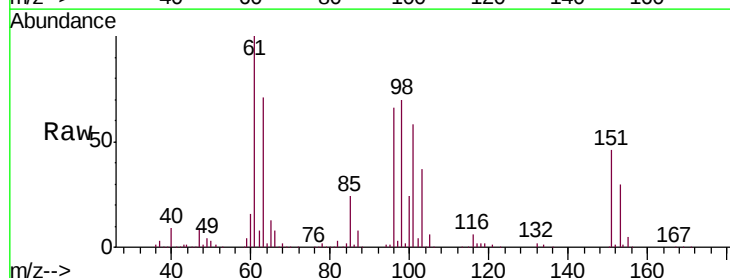
Tgt Ion: 96 Resp: 185087

Ion Ratio Lower Upper

96 100

61 150.4 104.6 194.2

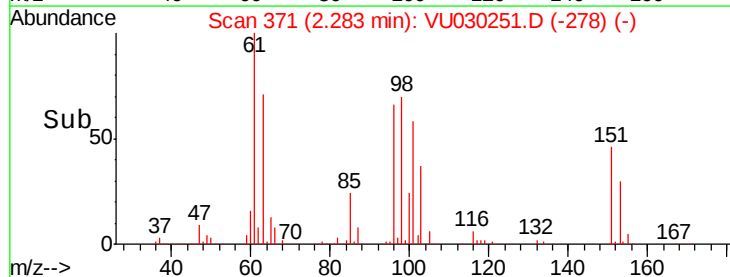
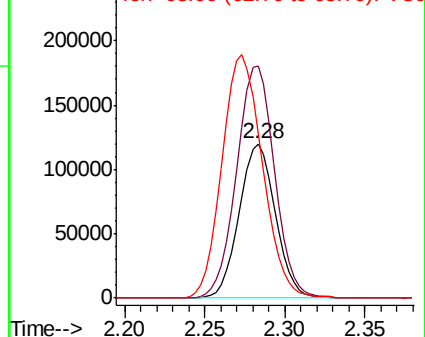
63 106.1 77.2 143.4

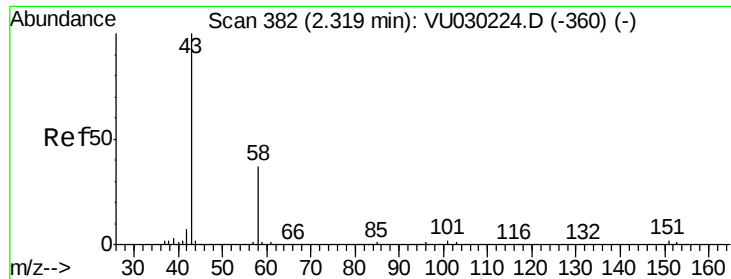


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 107.208 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

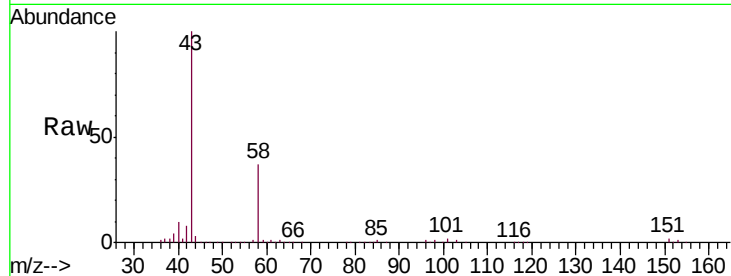
VSTD05050

Tgt Ion: 43 Resp: 320484

Ion Ratio Lower Upper

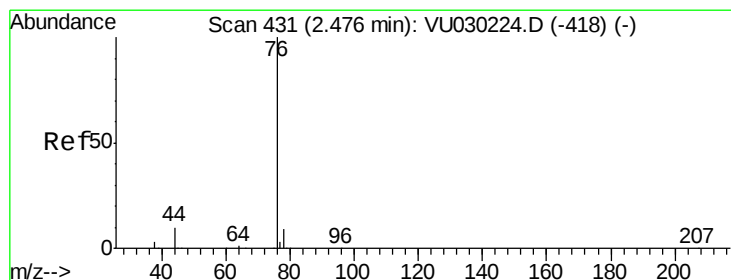
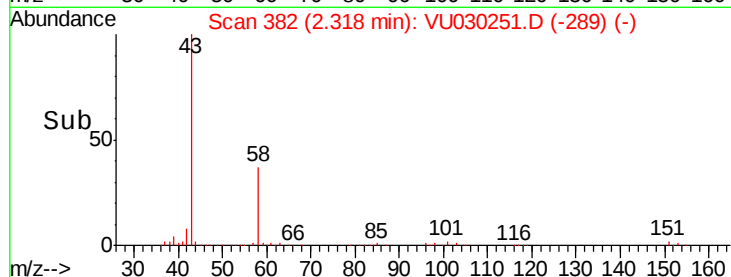
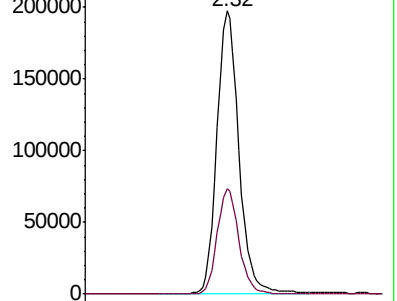
43 100

58 36.2 0.0 73.4



Abundance Ion 43.00 (42.70 to 43.70): VU030224.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU030224.D (-360) (-)



#14

Carbon disulfide

Concen: 47.322 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU030251.D

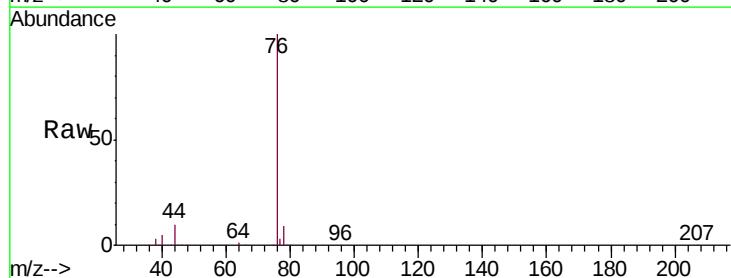
Acq: 21 Mar 2019 09:29

Tgt Ion: 76 Resp: 537765

Ion Ratio Lower Upper

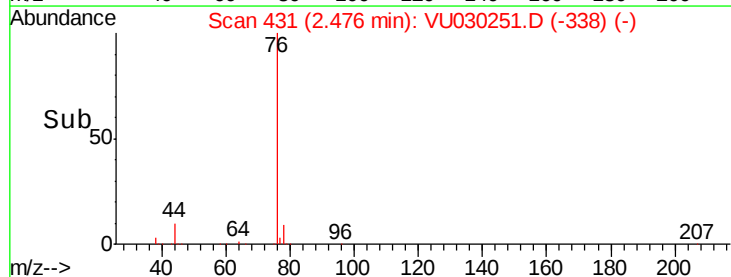
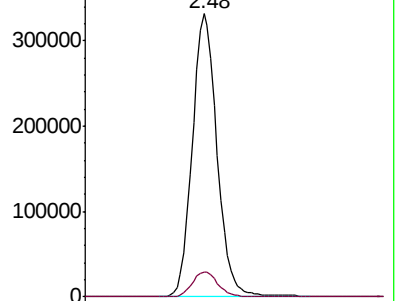
76 100

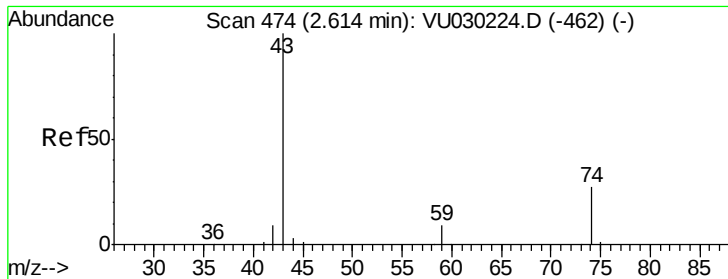
78 8.8 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VU030224.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU030224.D (-418) (-)

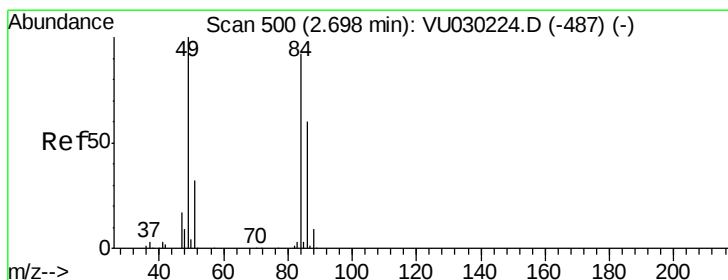
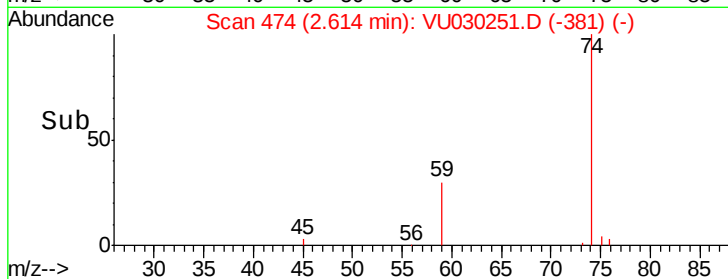
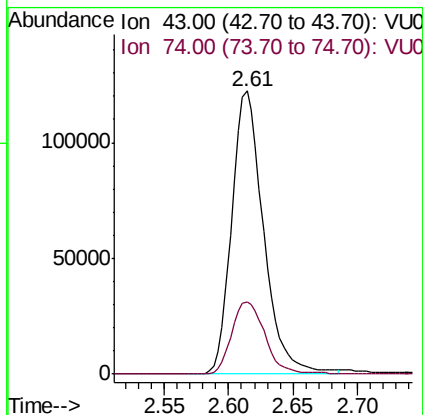
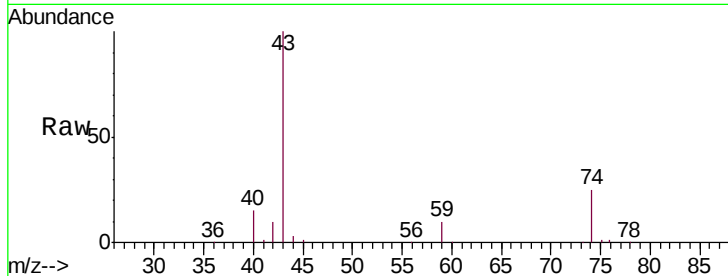




#15
Methyl Acetate
Concen: 48.099 ug/L
RT: 2.61 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU030251.D
Acq: 21 Mar 2019 09:29

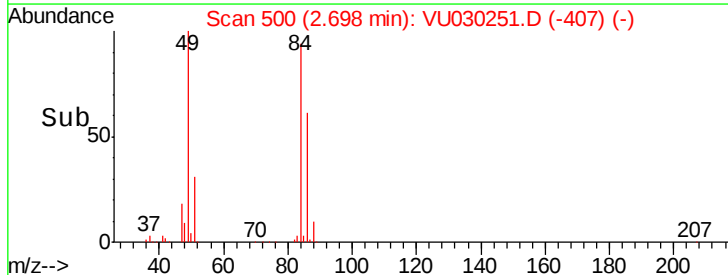
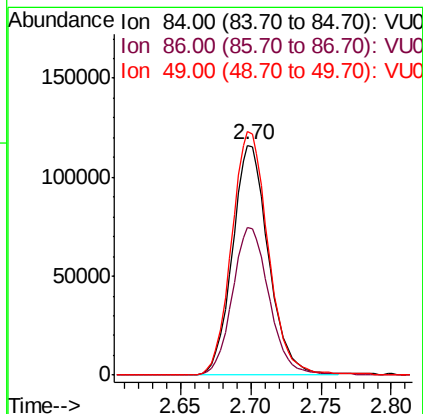
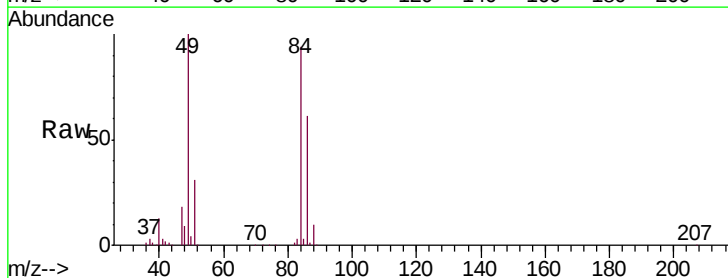
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

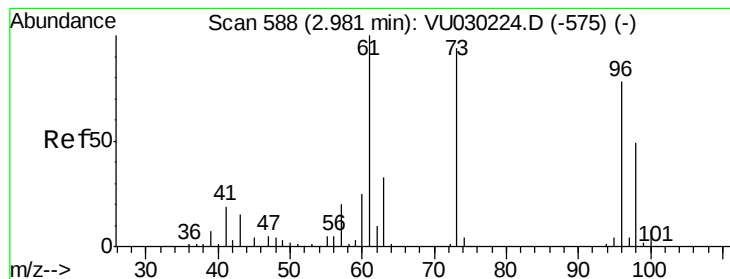
Tgt Ion: 43 Resp: 209094
Ion Ratio Lower Upper
43 100
74 26.4 20.9 31.3



#16
Methylene chloride
Concen: 48.173 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU030251.D
Acq: 21 Mar 2019 09:29

Tgt Ion: 84 Resp: 207876
Ion Ratio Lower Upper
84 100
86 64.2 45.6 84.6
49 105.9 75.2 139.6





#17

trans-1,2-Dichloroethene

Concen: 47.868 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

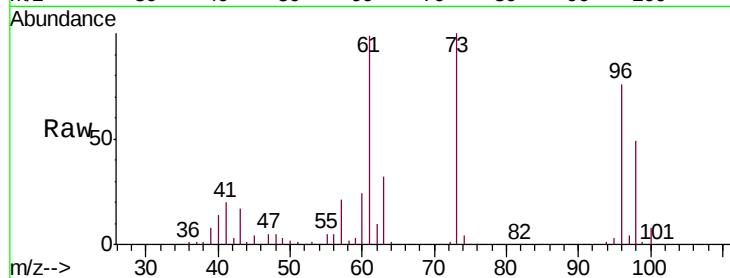
Tgt Ion: 96 Resp: 191937

Ion Ratio Lower Upper

96 100

61 130.6 90.9 168.9

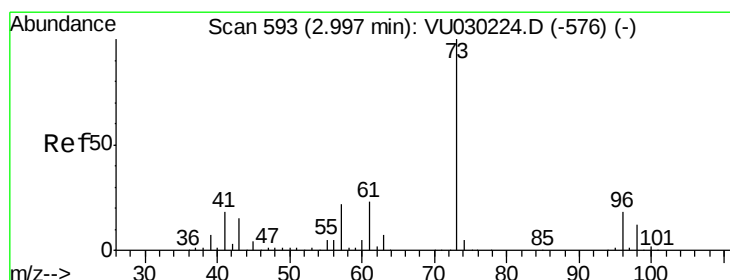
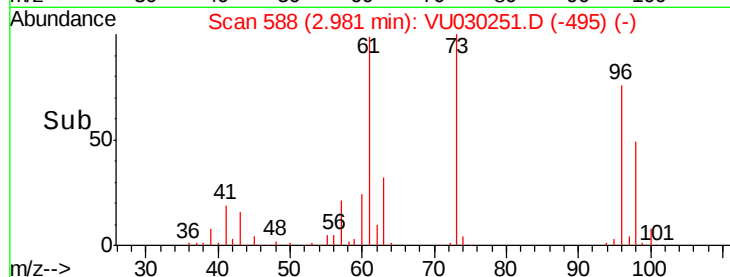
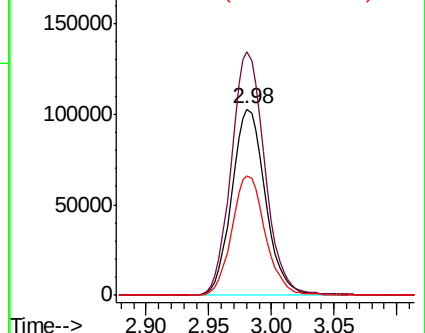
98 64.4 45.6 84.6



Abundance Ion 96.00 (95.70 to 96.70): VU030224.D (-575) (-)

Ion 61.00 (60.70 to 61.70): VU030224.D (-575) (-)

Ion 98.00 (97.70 to 98.70): VU030224.D (-575) (-)



#18

Methyl tert-butyl Ether

Concen: 49.543 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

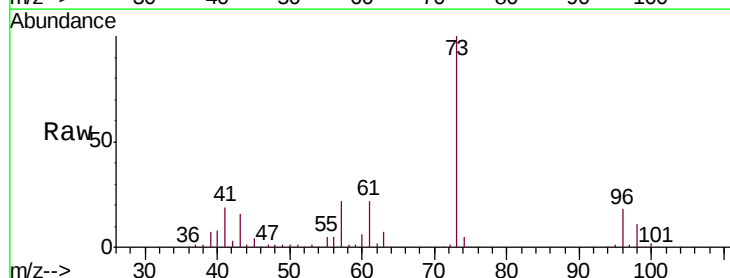
Tgt Ion: 73 Resp: 571432

Ion Ratio Lower Upper

73 100

43 16.3 13.1 19.7

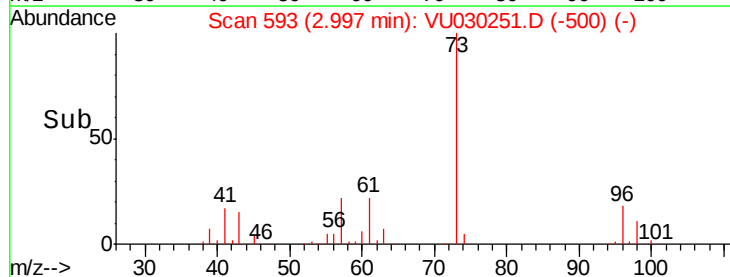
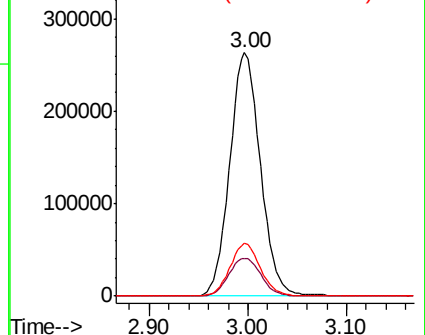
57 21.5 17.1 25.7

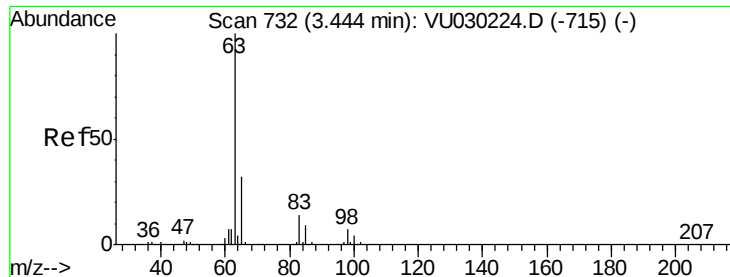


Abundance Ion 73.00 (72.70 to 73.70): VU030224.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030224.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU030224.D (-576) (-)

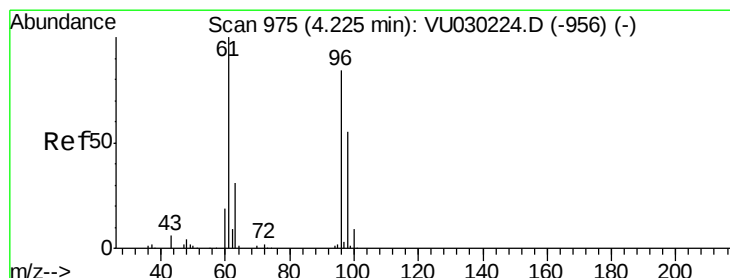
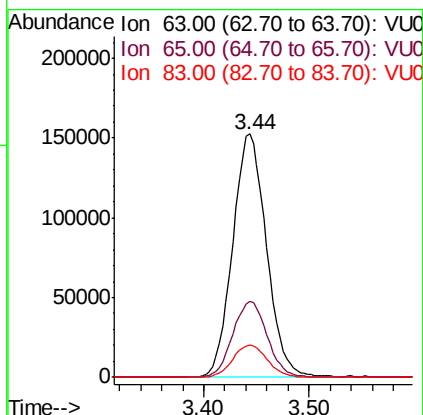
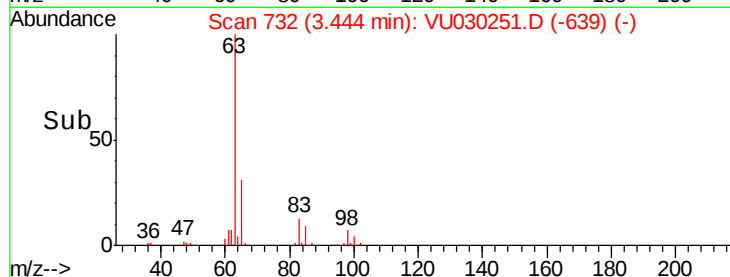
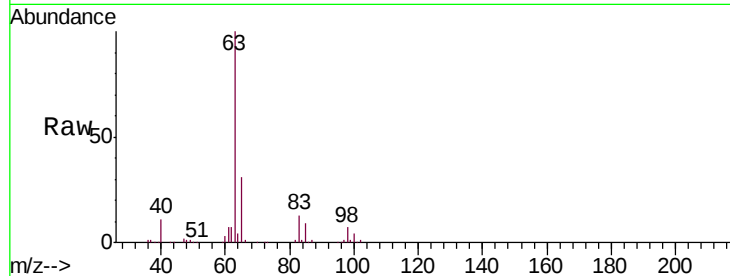




#19
 1,1-Dichloroethane
 Concen: 49.221 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

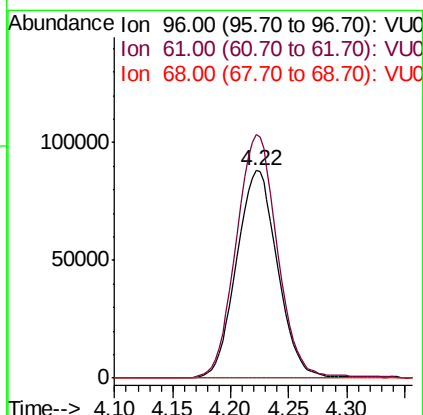
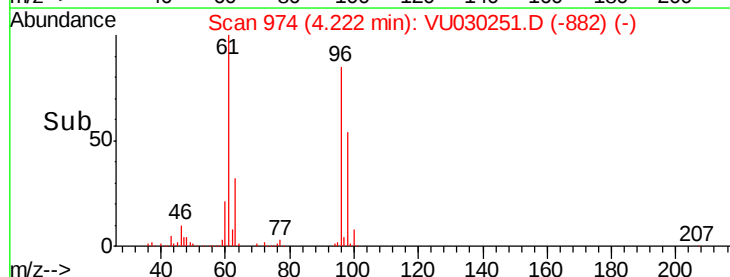
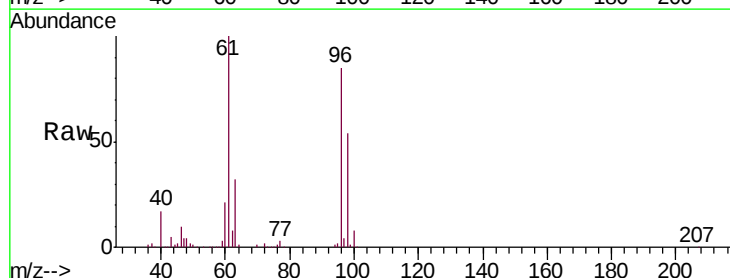
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

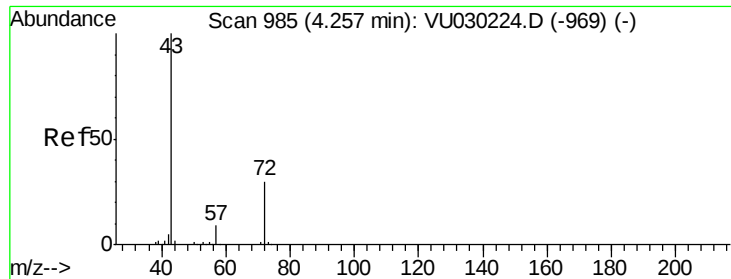
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.2	21.8	40.4
83	13.3	9.9	18.3



#20
 cis-1,2-Dichloroethene
 Concen: 49.351 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	117.5	81.5	151.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 103.479 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

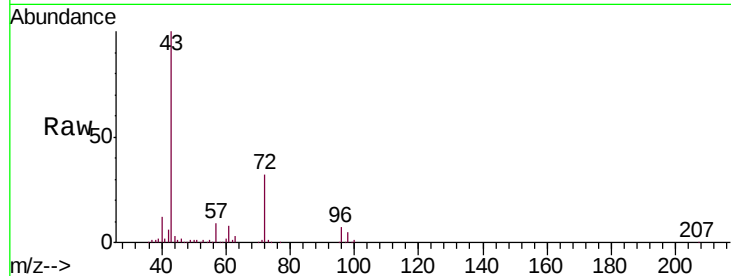
VSTD05050

Tgt Ion: 43 Resp: 363561

Ion Ratio Lower Upper

43 100

72 31.0 15.7 47.1



Abundance Ion 43.00 (42.70 to 43.70): VU030224.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU030224.D (-969) (-)

4.26

150000

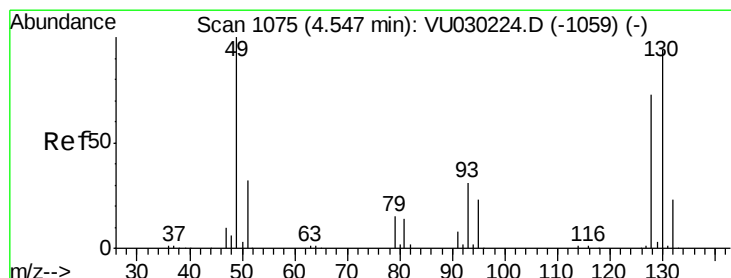
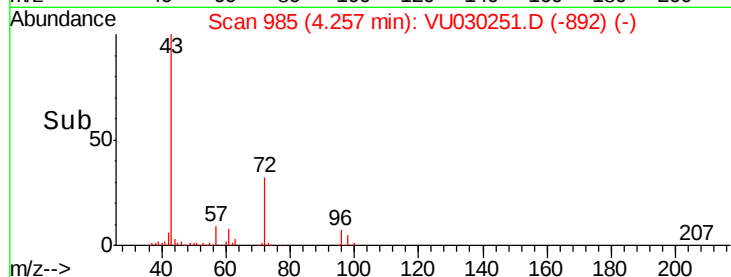
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 47.910 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Tgt Ion: 128 Resp: 112648

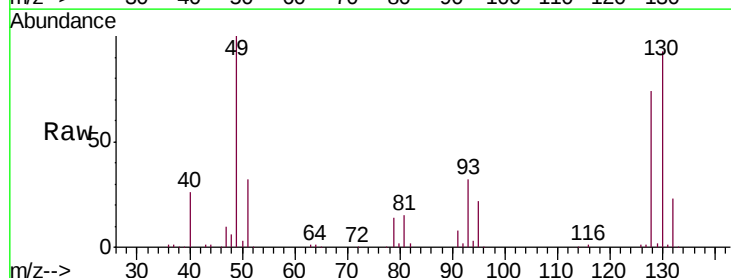
Ion Ratio Lower Upper

128 100

49 135.4 92.5 171.9

130 126.6 90.1 167.3

51 42.7 33.8 50.8



Abundance Ion 128.00 (127.70 to 128.70): VU030224.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030224.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030224.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030224.D (-1059) (-)

4.55

100000

80000

60000

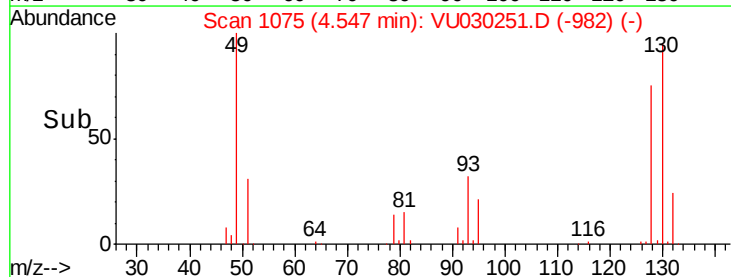
40000

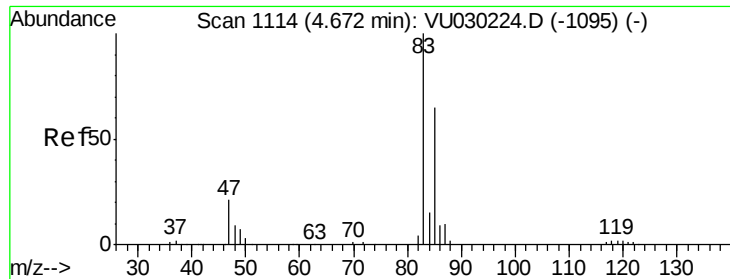
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 48.553 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

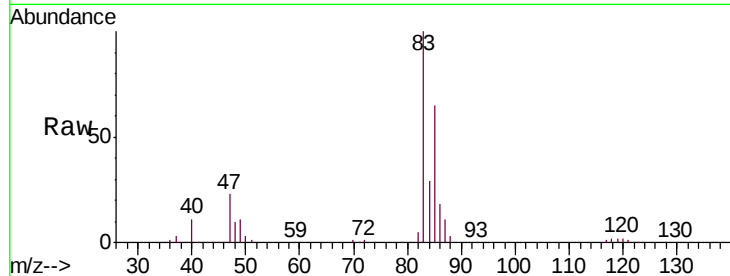
VSTD05050

Tgt Ion: 83 Resp: 348857

Ion Ratio Lower Upper

83 100

85 64.8 45.8 85.2



Abundance Ion 83.00 (82.70 to 83.70): VU030224.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU030224.D (-1095) (-)

4.67

150000

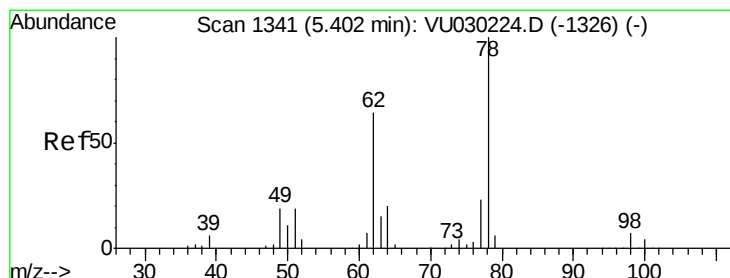
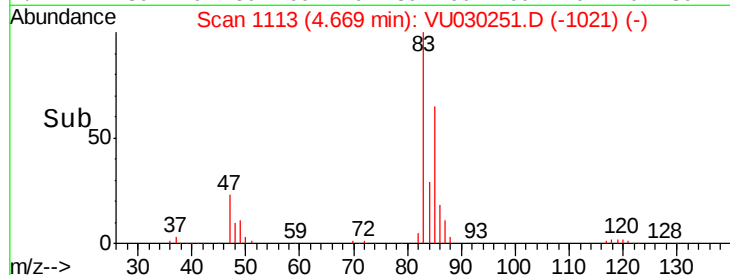
100000

50000

0

4.60 4.70 4.80

Time-->



#27

1,2-Dichloroethane

Concen: 49.501 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU030251.D

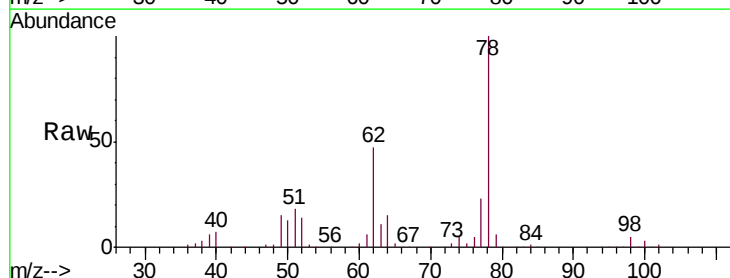
Acq: 21 Mar 2019 09:29

Tgt Ion: 62 Resp: 252092

Ion Ratio Lower Upper

62 100

98 11.1 8.6 12.8



Abundance Ion 62.00 (61.70 to 62.70): VU030224.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU030224.D (-1326) (-)

5.40

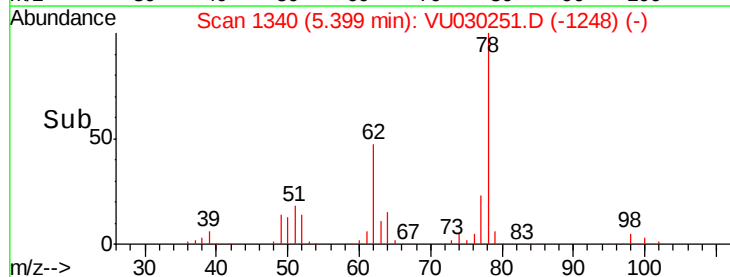
100000

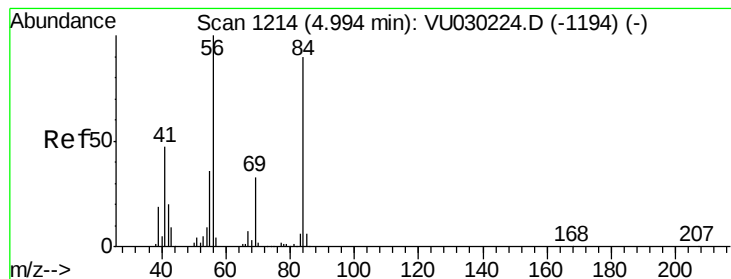
50000

0

5.30 5.40 5.50

Time-->





#29

Cyclohexane

Concen: 51.280 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

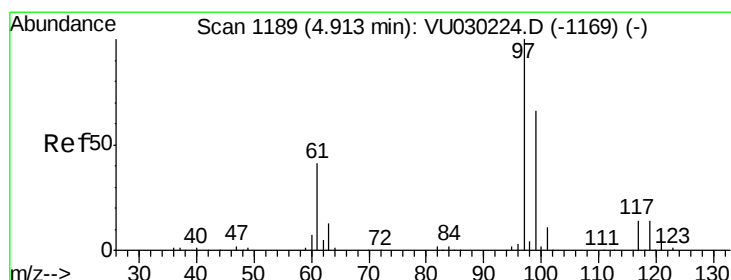
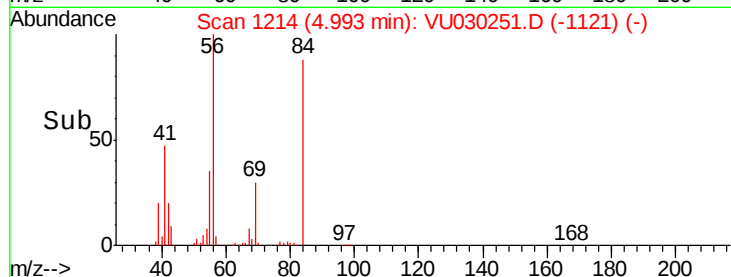
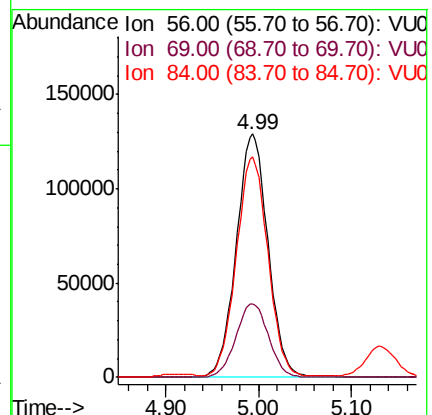
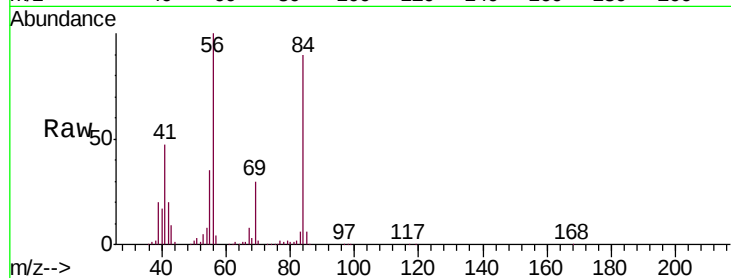
Tgt Ion: 56 Resp: 307130

Ion Ratio Lower Upper

56 100

69 31.1 25.4 38.2

84 90.5 71.5 107.3



#30

1,1,1-Trichloroethane

Concen: 49.823 ug/L

RT: 4.91 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

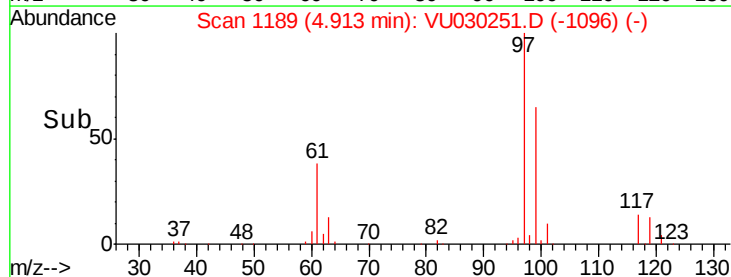
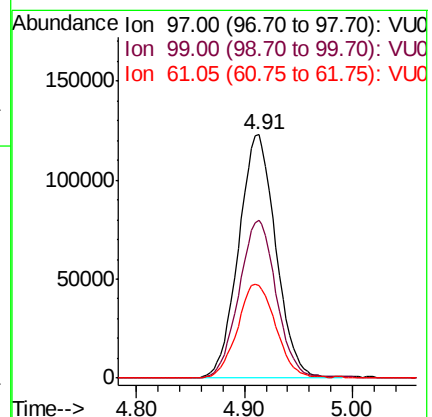
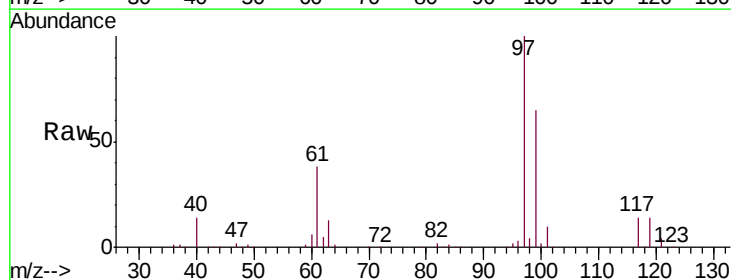
Tgt Ion: 97 Resp: 295981

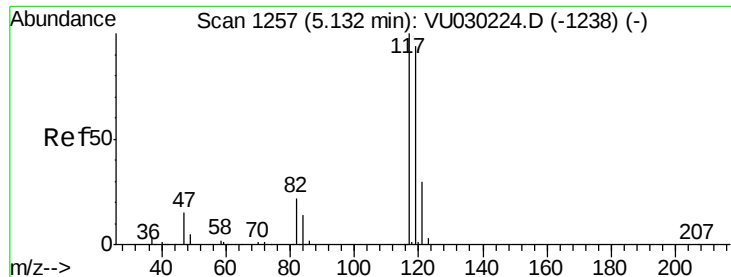
Ion Ratio Lower Upper

97 100

99 64.6 51.8 77.6

61 39.7 32.7 49.1





#31

Carbon tetrachloride

Concen: 49.042 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

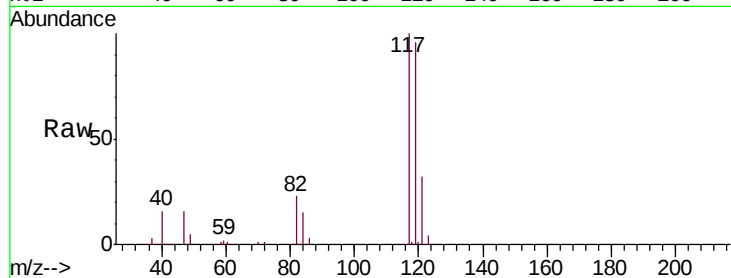
VSTD05050

Tgt Ion:117 Resp: 257921

Ion Ratio Lower Upper

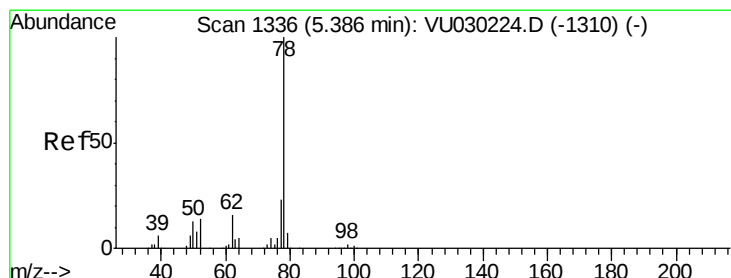
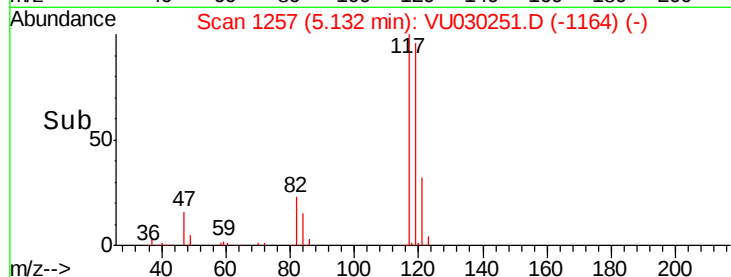
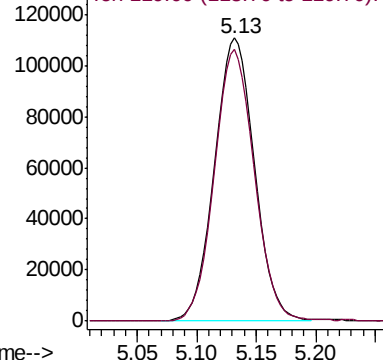
117 100

119 96.2 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.420 ug/L

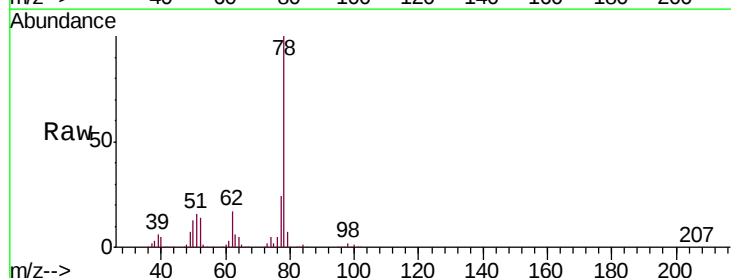
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

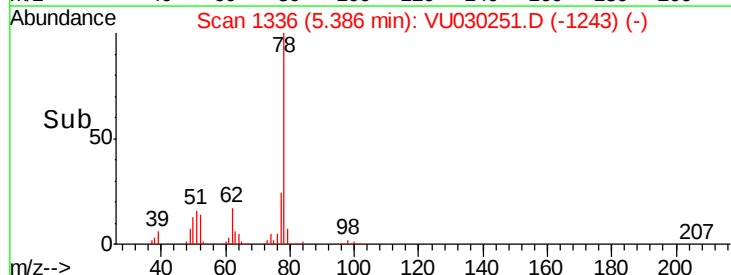
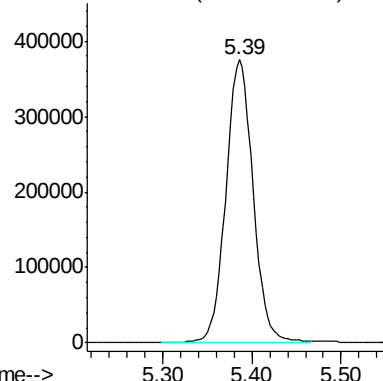
Lab File: VU030251.D

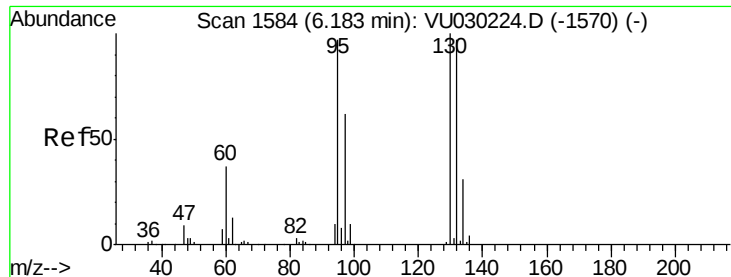
Acq: 21 Mar 2019 09:29

Tgt Ion: 78 Resp: 801860



Abundance Ion 78.00 (77.70 to 78.70): VU0

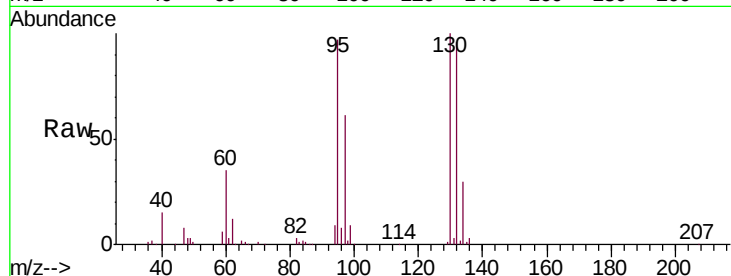




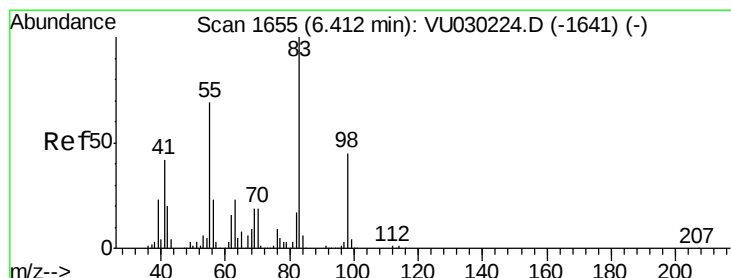
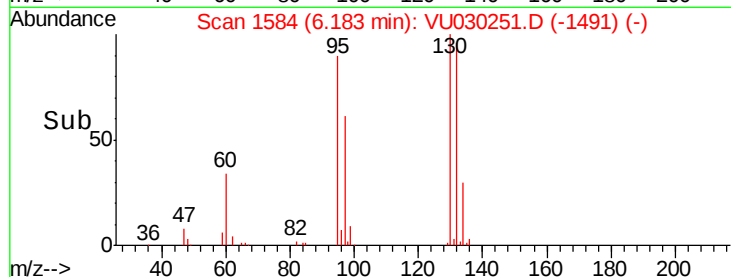
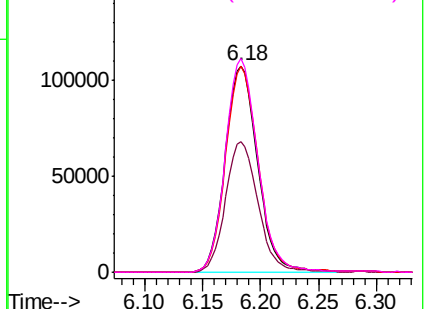
#34
 Trichloroethene
 Concen: 49.939 ug/L
 RT: 6.18 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion: 95 Resp: 209331
 Ion Ratio Lower Upper
 95 100
 97 63.4 46.2 85.8
 132 99.5 69.3 128.7
 130 103.3 73.6 136.6

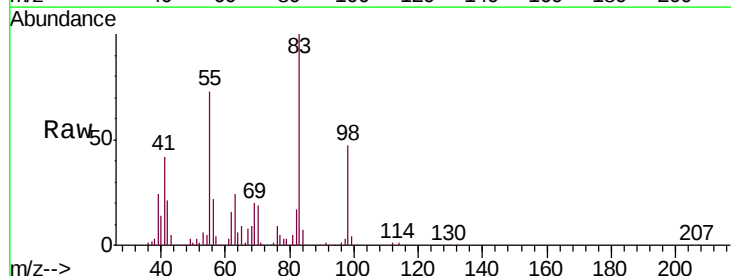


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

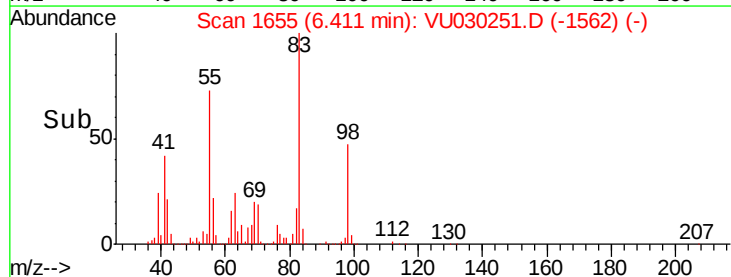
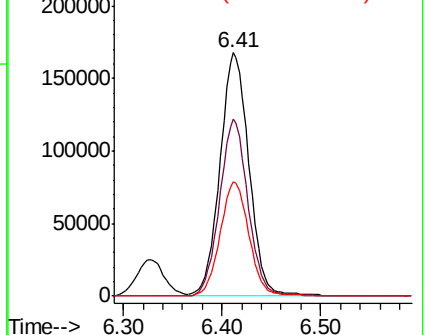


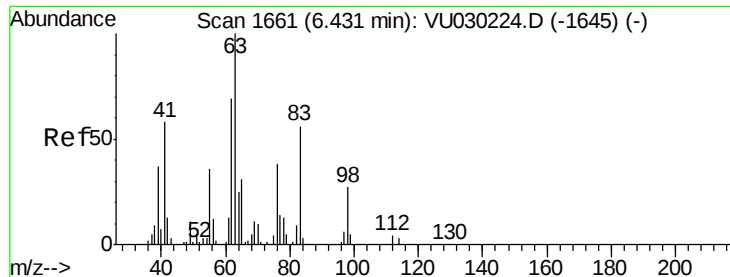
#35
 Methylcyclohexane
 Concen: 52.014 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Tgt Ion: 83 Resp: 341888
 Ion Ratio Lower Upper
 83 100
 55 72.1 56.6 85.0
 98 47.2 37.0 55.4



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

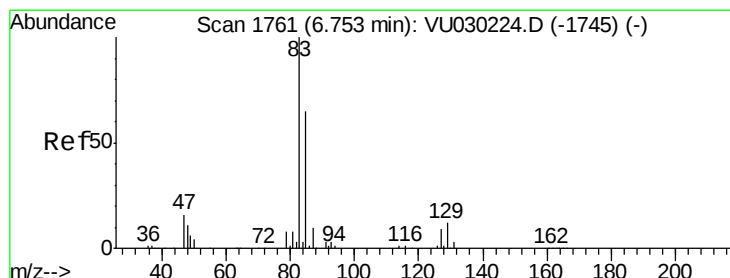
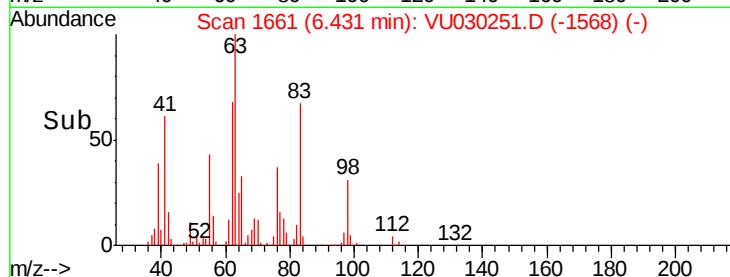
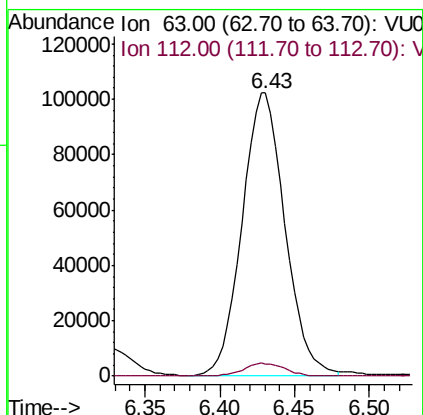
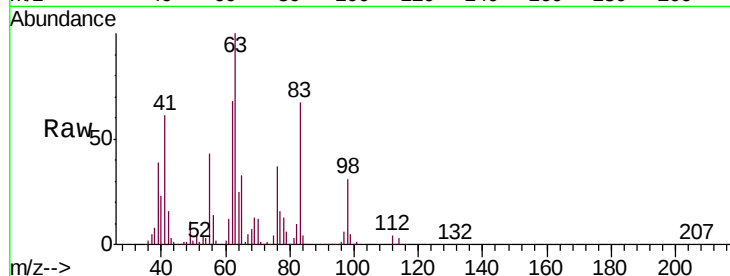




#37
 1,2-Dichloropropane
 Concen: 49.824 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

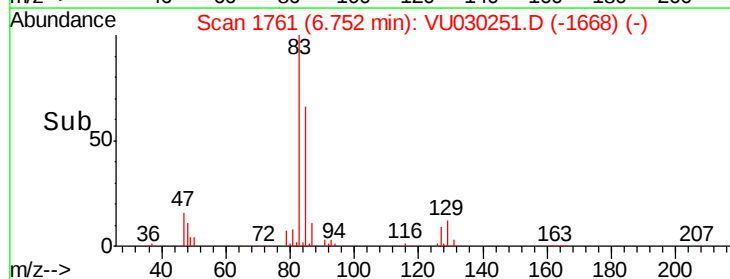
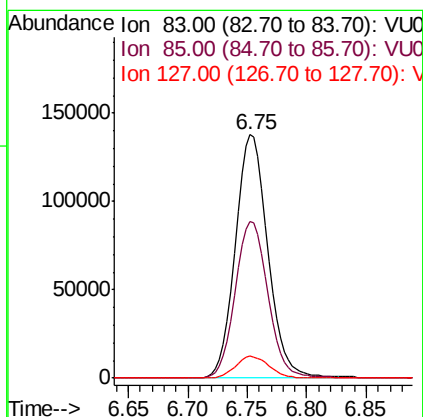
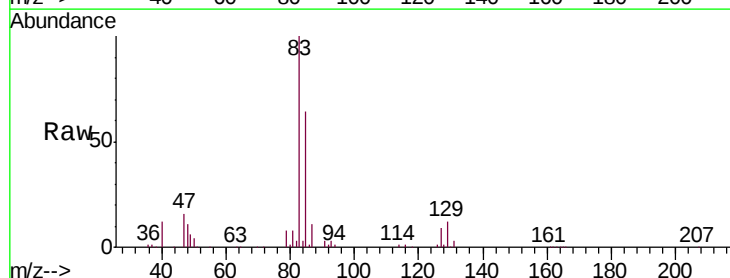
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

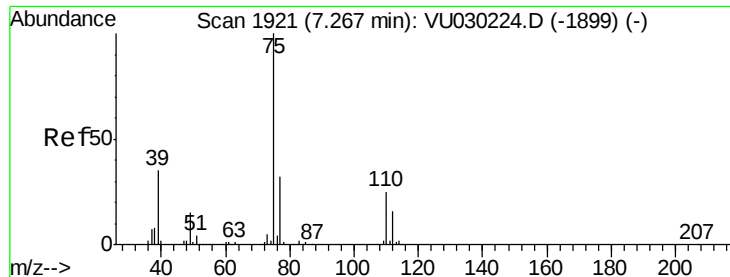
Tgt Ion: 63 Resp: 202934
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.3 4.9



#38
 Bromodichloromethane
 Concen: 49.865 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Tgt Ion: 83 Resp: 261133
 Ion Ratio Lower Upper
 83 100
 85 64.5 45.8 85.2
 127 8.9 7.4 11.0



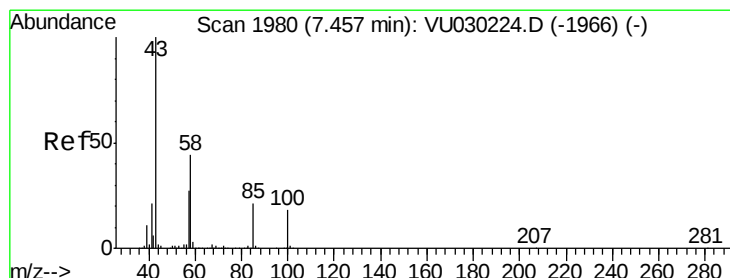
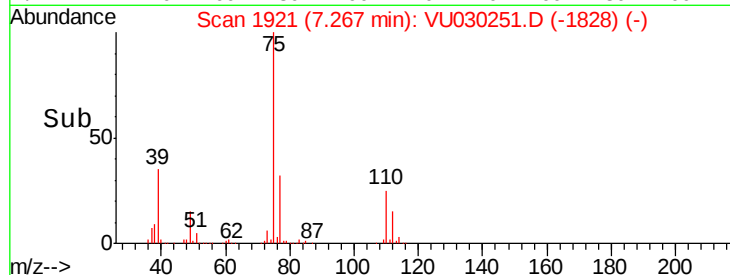
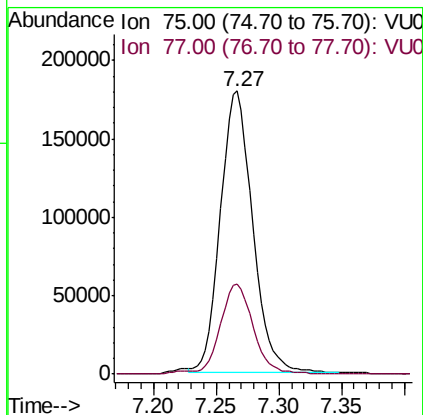
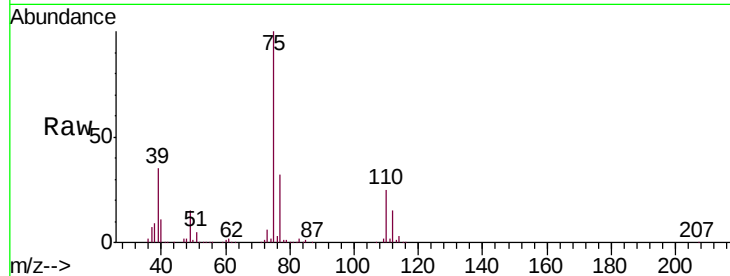


#39

cis-1,3-Dichloropropene
 Concen: 49.155 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

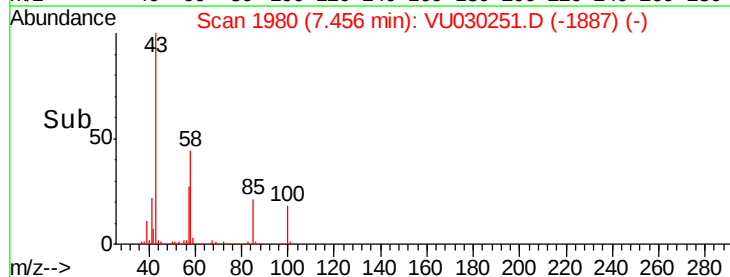
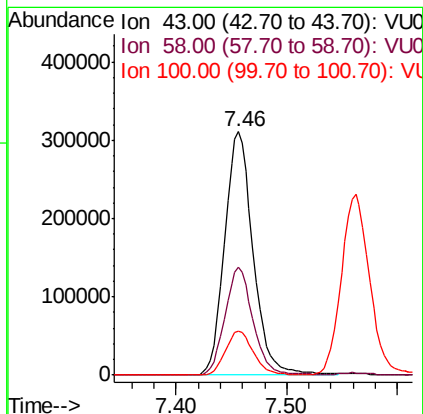
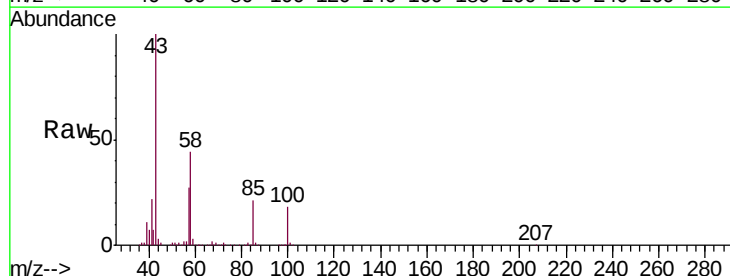
Tgt Ion: 75 Resp: 321220
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.1 41.1

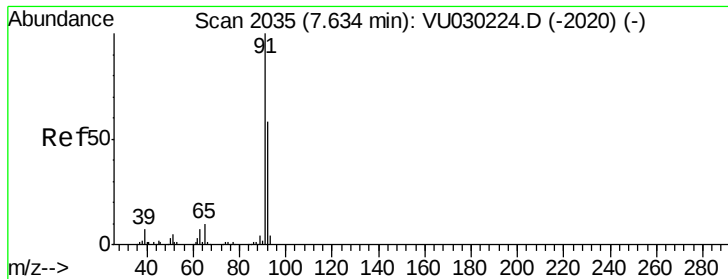


#40

4-Methyl-2-pentanone
 Concen: 99.370 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Tgt Ion: 43 Resp: 556247
 Ion Ratio Lower Upper
 43 100
 58 43.6 34.4 51.6
 100 17.8 13.9 20.9





#42

Toluene

Concen: 50.791 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

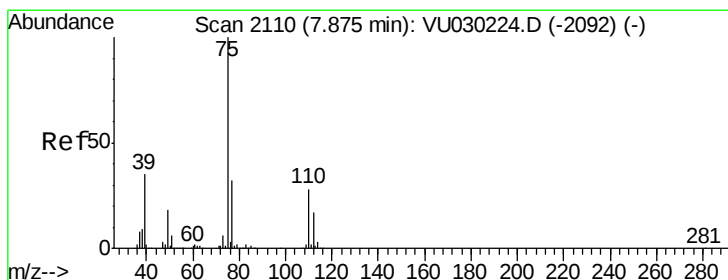
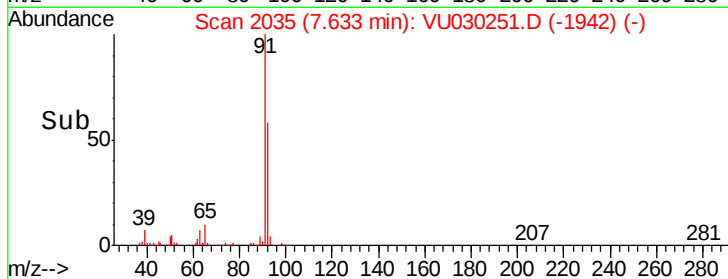
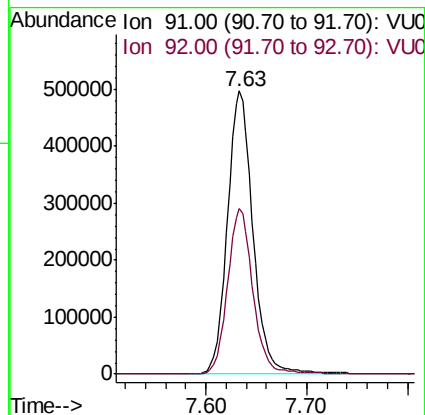
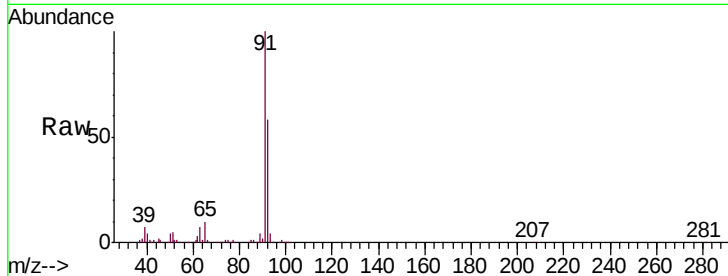
VSTD05050

Tgt Ion: 91 Resp: 879200

Ion Ratio Lower Upper

91 100

92 58.4 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 51.533 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030251.D

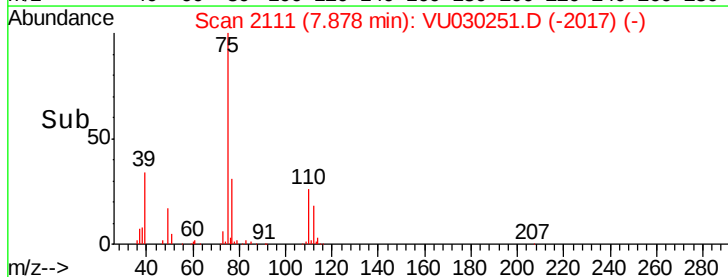
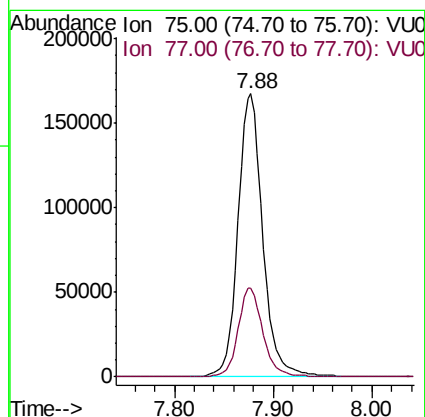
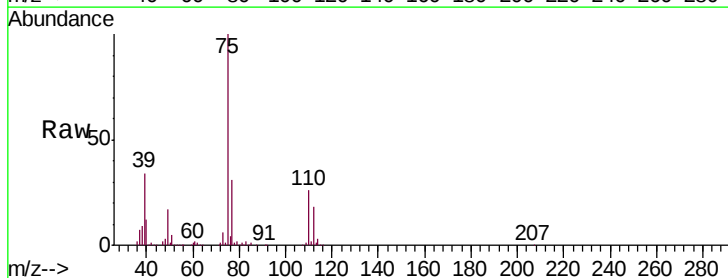
Acq: 21 Mar 2019 09:29

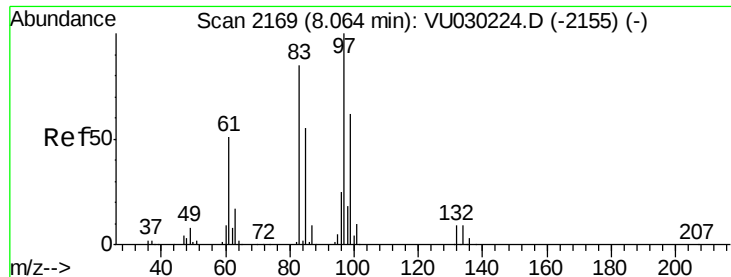
Tgt Ion: 75 Resp: 291402

Ion Ratio Lower Upper

75 100

77 31.4 22.7 42.1

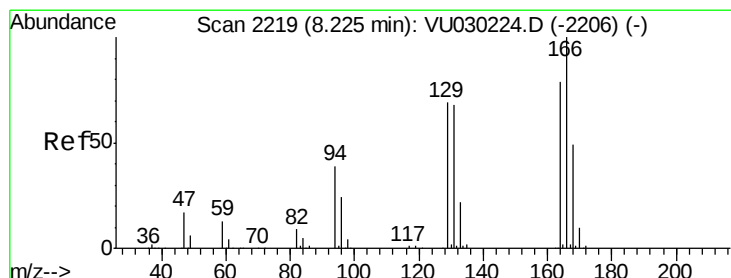
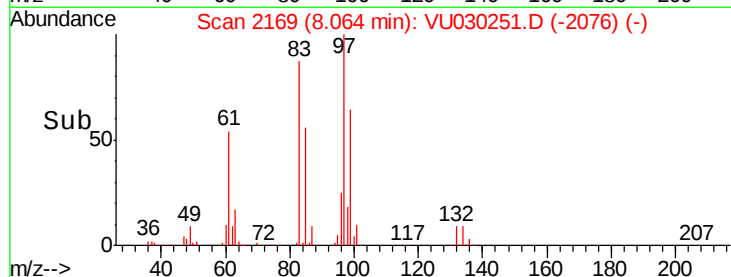
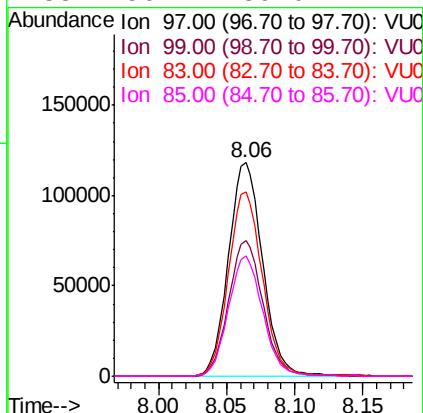
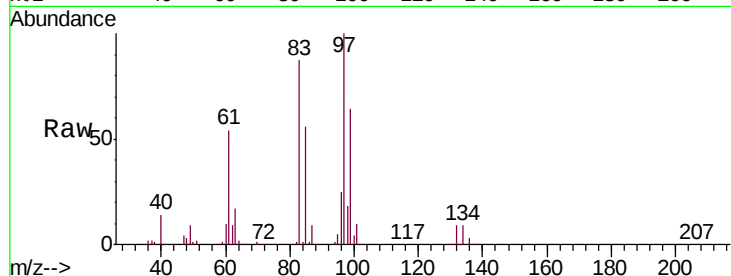




#45
 1,1,2-Trichloroethane
 Concen: 49.331 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

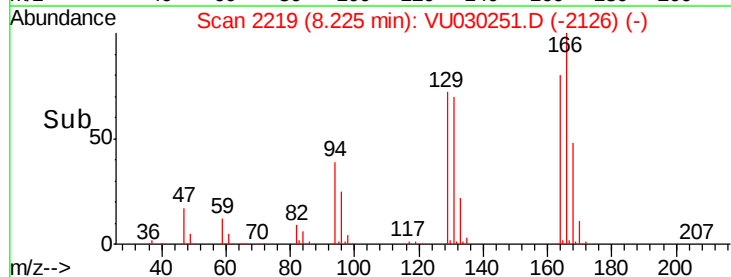
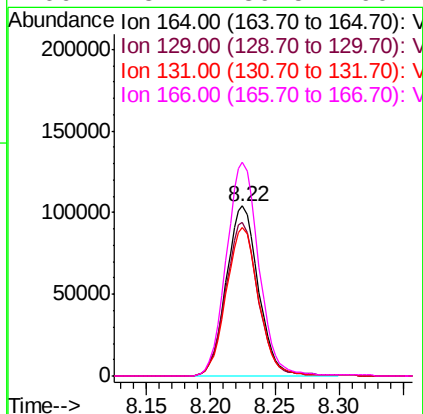
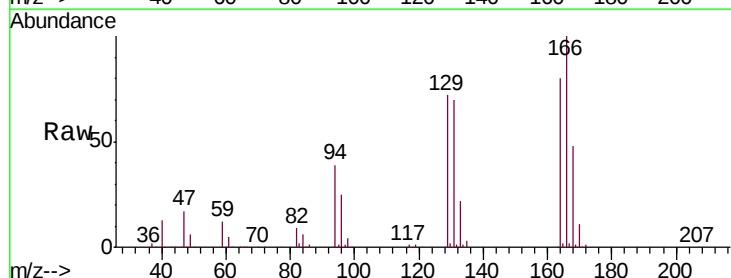
Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD05050

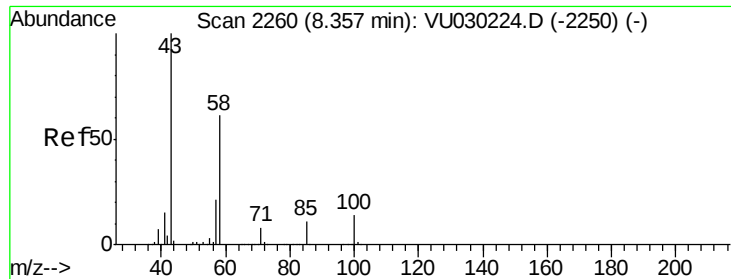
Tgt Ion:	97	Resp:	206251
Ion	Ratio	Lower	Upper
97	100		
99	63.6	43.3	80.5
83	86.6	59.3	110.1
85	56.1	39.0	72.4



#46
 Tetrachloroethene
 Concen: 50.919 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Tgt Ion:	164	Resp:	180337
Ion	Ratio	Lower	Upper
164	100		
129	90.5	64.4	119.6
131	87.6	63.2	117.4
166	125.7	89.5	166.1

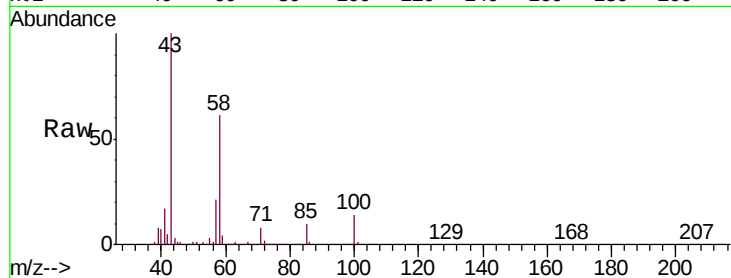




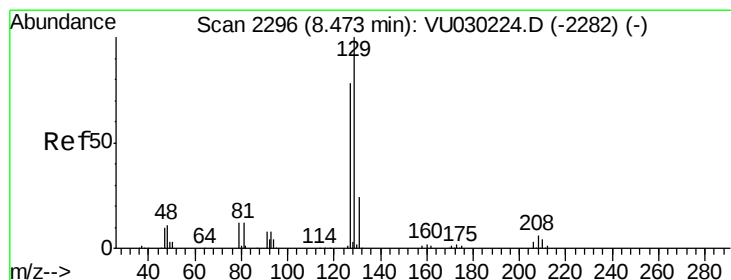
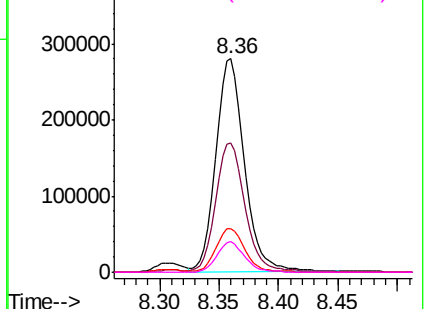
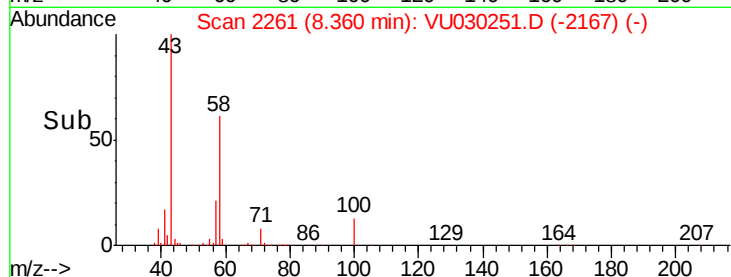
#48
2-Hexanone
Concen: 100.337 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030251.D
Acq: 21 Mar 2019 09:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tgt Ion: 43 Resp: 466174
Ion Ratio Lower Upper
43 100
58 61.4 49.3 73.9
57 20.7 17.0 25.4
100 14.1 11.0 16.4

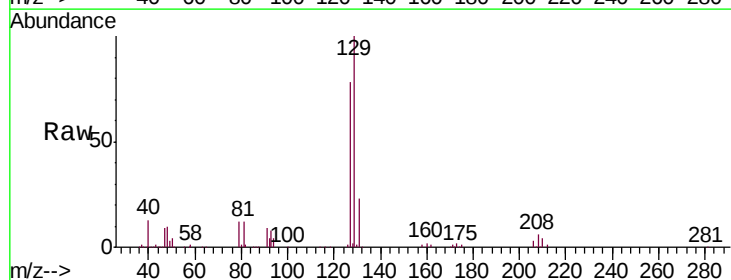


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

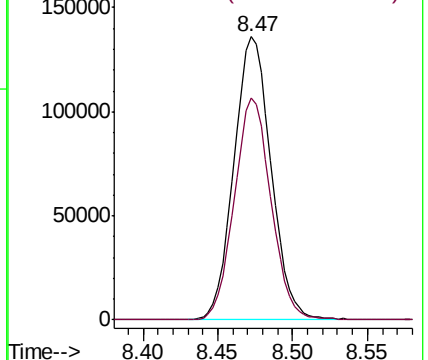
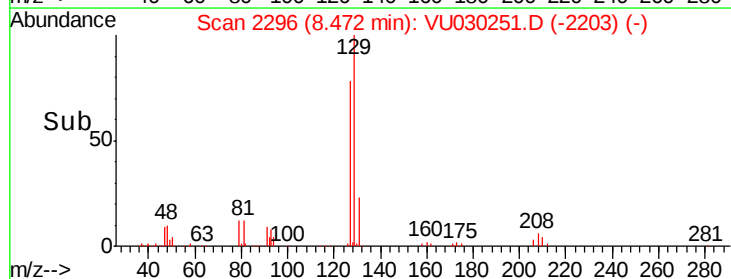


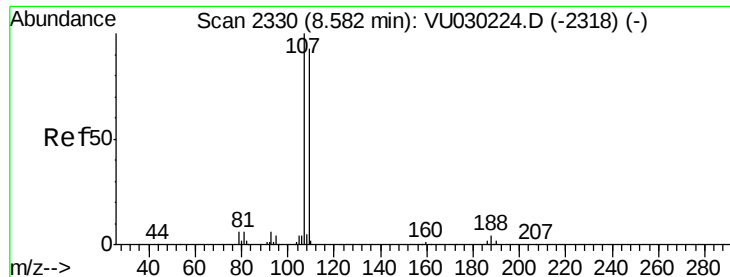
#49
Dibromochloromethane
Concen: 50.252 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030251.D
Acq: 21 Mar 2019 09:29

Tgt Ion: 129 Resp: 235599
Ion Ratio Lower Upper
129 100
127 78.2 53.4 99.2



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

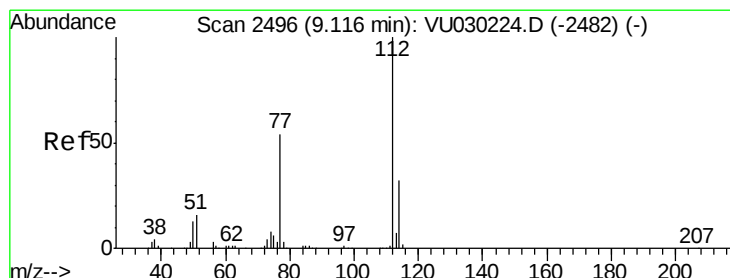
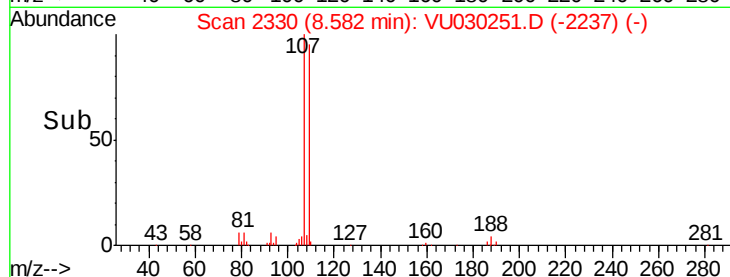
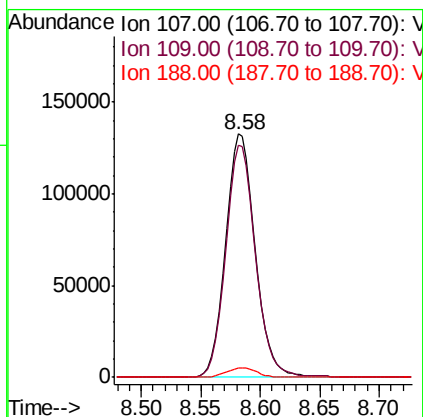
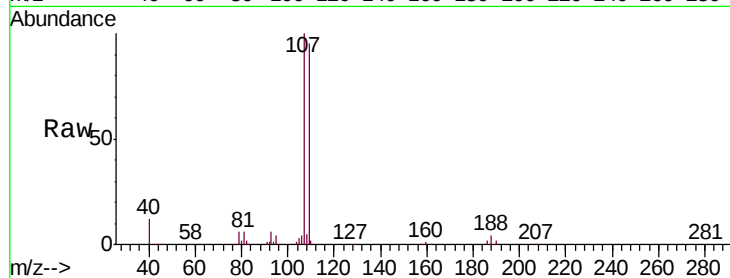




#50
1,2-Dibromoethane
Concen: 49.364 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU030251.D
Acq: 21 Mar 2019 09:29

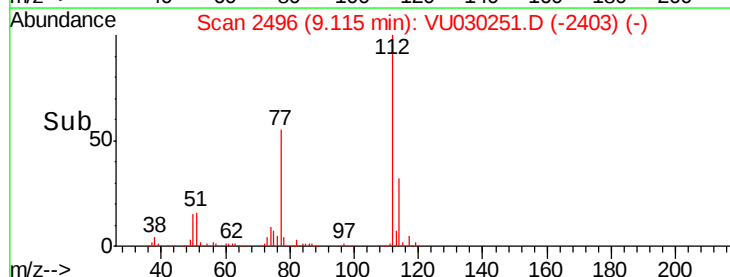
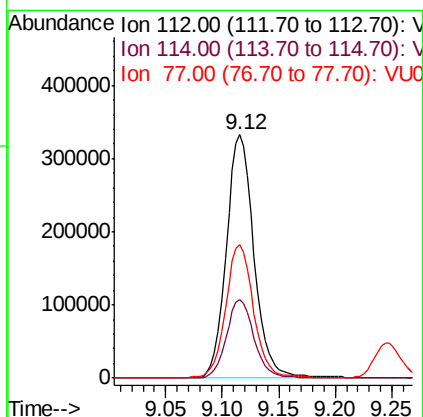
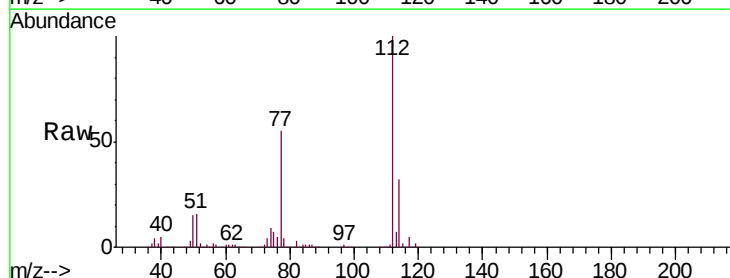
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

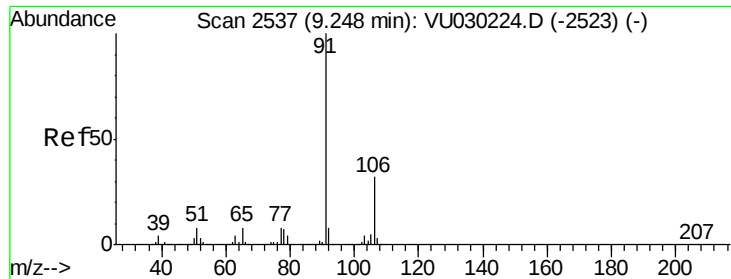
Tgt Ion:107 Resp: 228817
Ion Ratio Lower Upper
107 100
109 95.5 65.4 121.4
188 3.8 2.7 4.1



#51
Chlorobenzene
Concen: 49.387 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU030251.D
Acq: 21 Mar 2019 09:29

Tgt Ion:112 Resp: 565594
Ion Ratio Lower Upper
112 100
114 32.3 22.5 41.7
77 54.8 43.4 65.0





#52

Ethylbenzene

Concen: 50.707 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

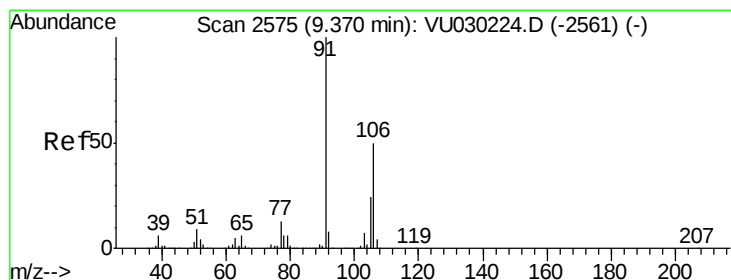
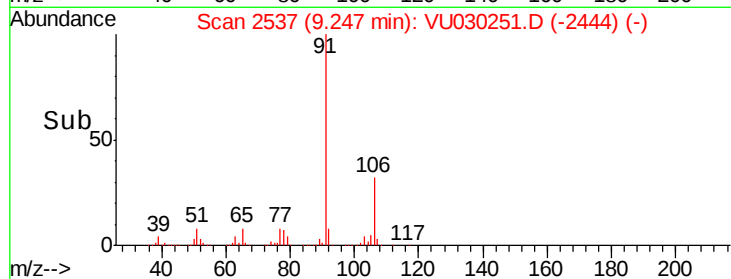
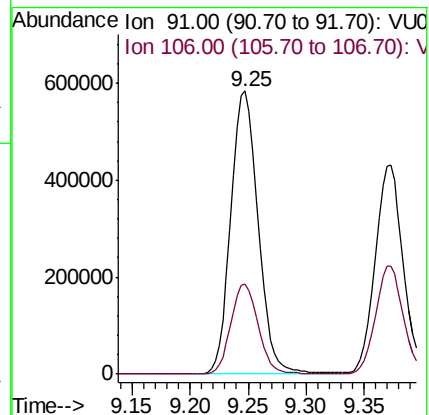
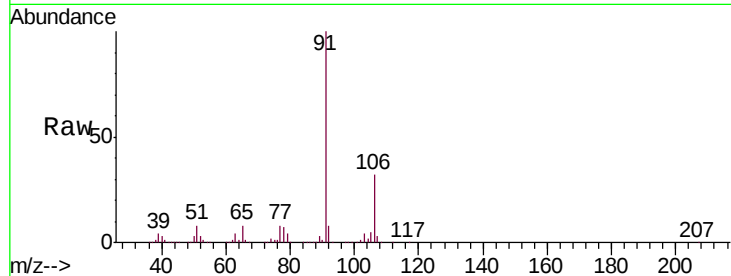
VSTD05050

Tgt Ion: 91 Resp: 953217

Ion Ratio Lower Upper

91 100

106 32.0 22.5 41.7



#53

m,p-Xylene

Concen: 51.453 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030251.D

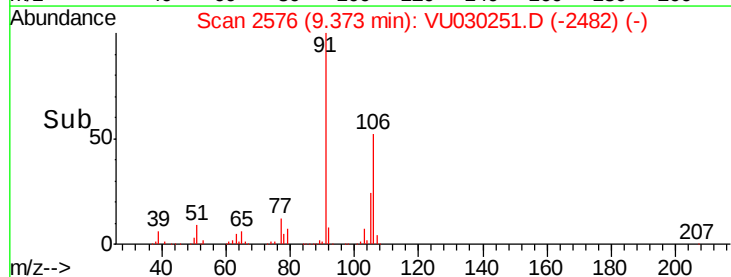
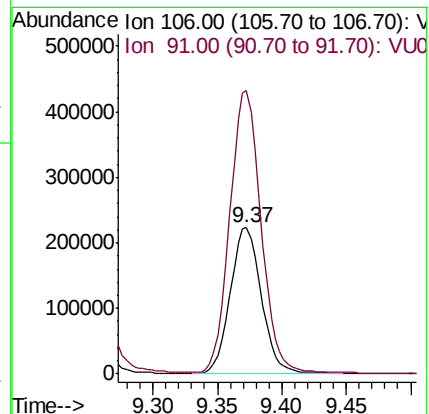
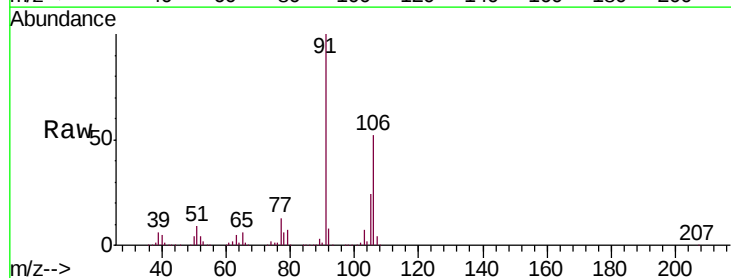
Acq: 21 Mar 2019 09:29

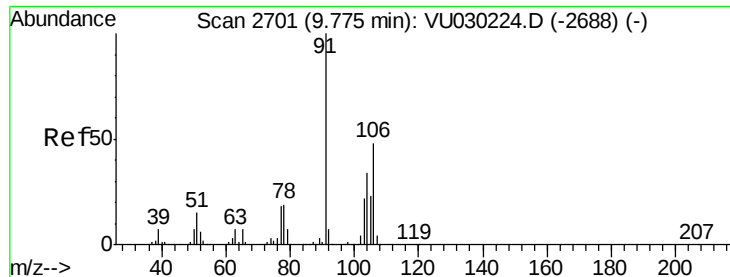
Tgt Ion: 106 Resp: 372653

Ion Ratio Lower Upper

106 100

91 193.4 138.2 256.6





#54

o-xylene

Concen: 51.393 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

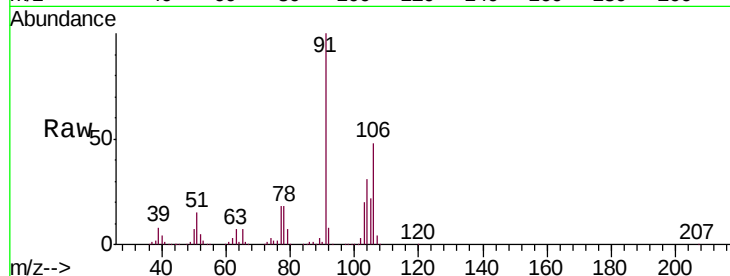
VSTD05050

Tgt Ion:106 Resp: 365895

Ion Ratio Lower Upper

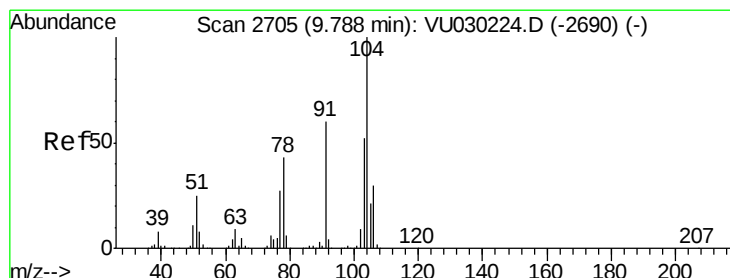
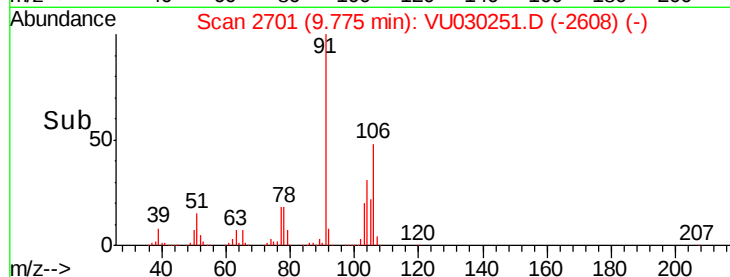
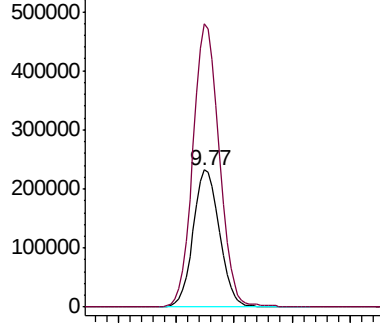
106 100

91 206.5 145.5 270.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.344 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU030251.D

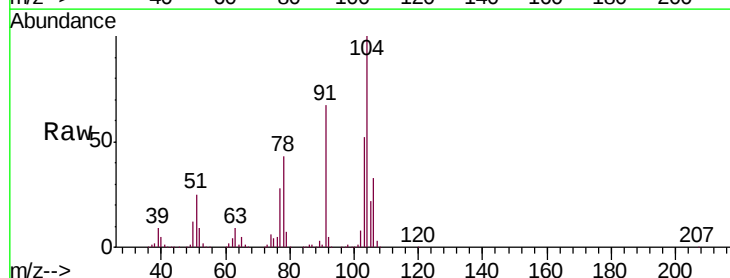
Acq: 21 Mar 2019 09:29

Tgt Ion:104 Resp: 631414

Ion Ratio Lower Upper

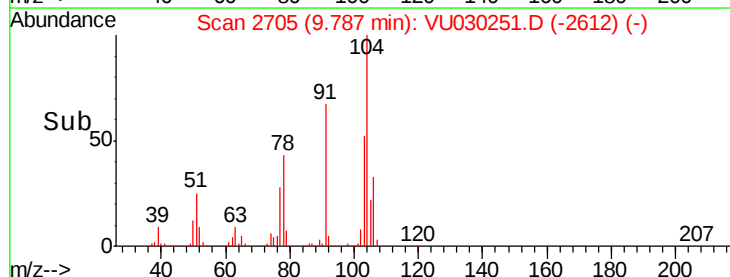
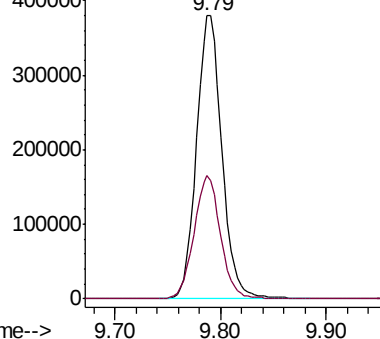
104 100

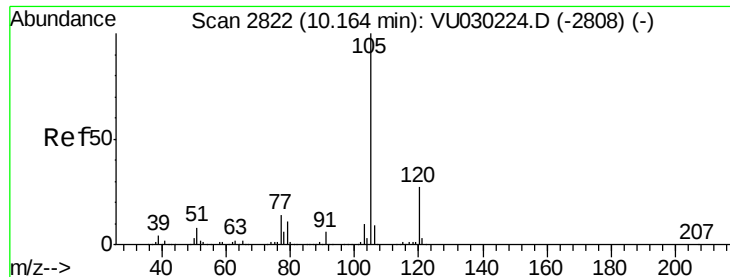
78 43.4 29.8 55.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.320 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

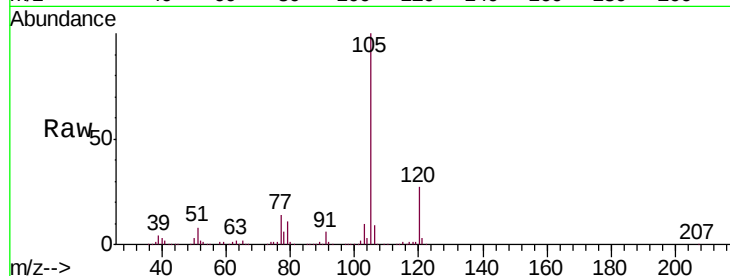
Tgt Ion: 105 Resp: 944648

Ion Ratio Lower Upper

105 100

120 26.8 21.8 32.8

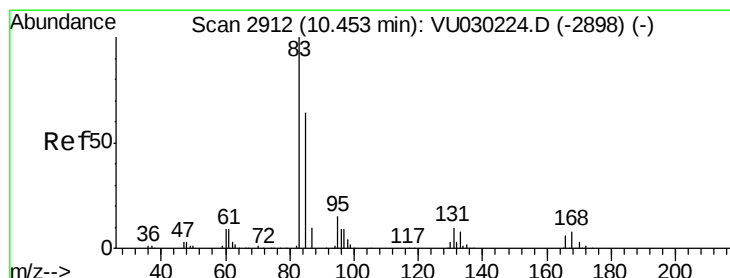
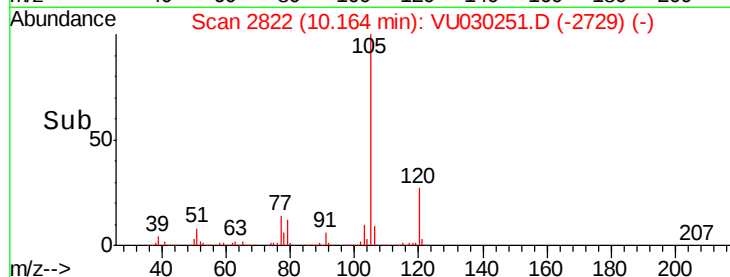
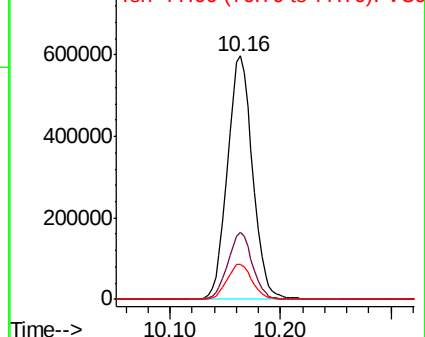
77 14.5 11.3 16.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 48.841 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

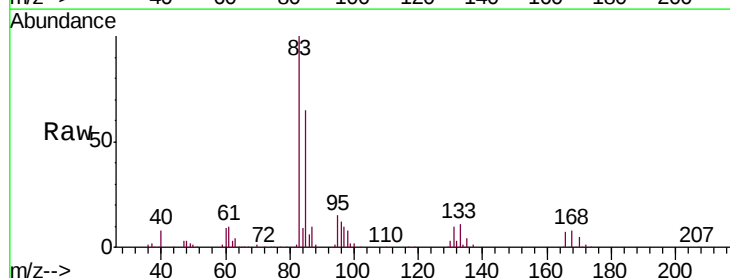
Tgt Ion: 83 Resp: 348202

Ion Ratio Lower Upper

83 100

85 65.3 45.7 84.9

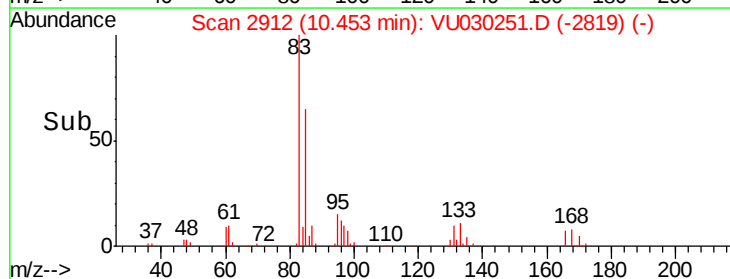
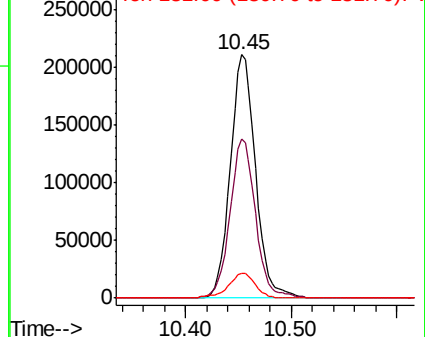
131 10.0 7.8 11.6

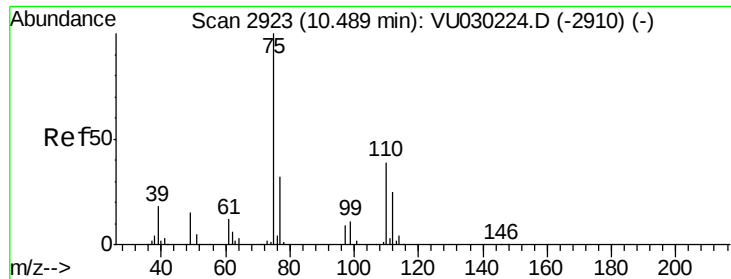


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

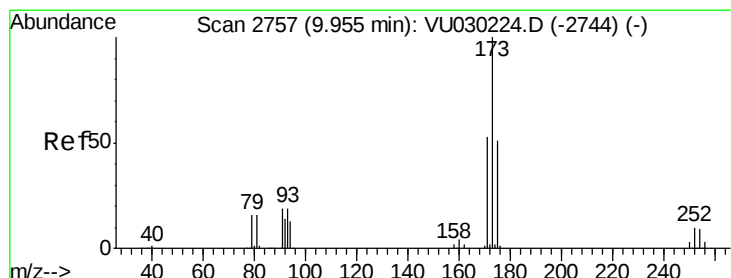
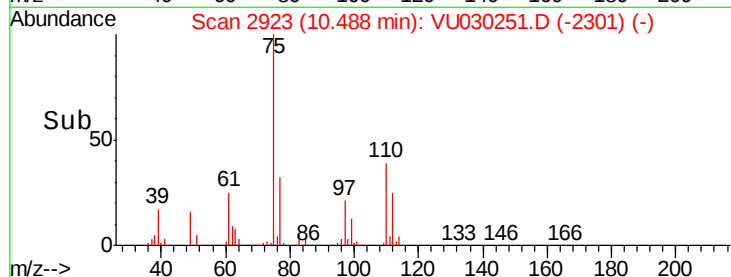
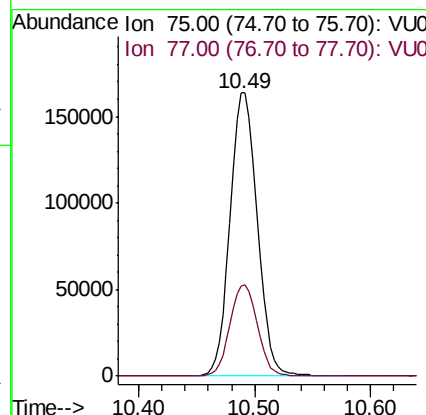
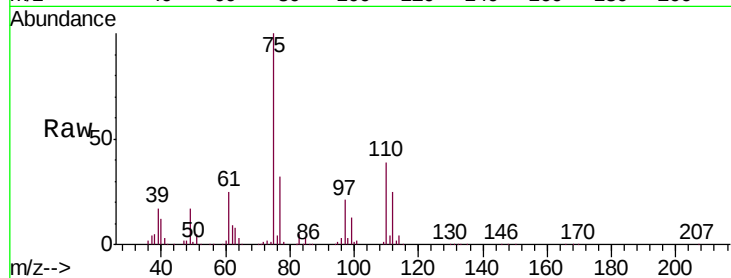




#59
 1,2,3-Trichloropropane
 Concen: 48.242 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

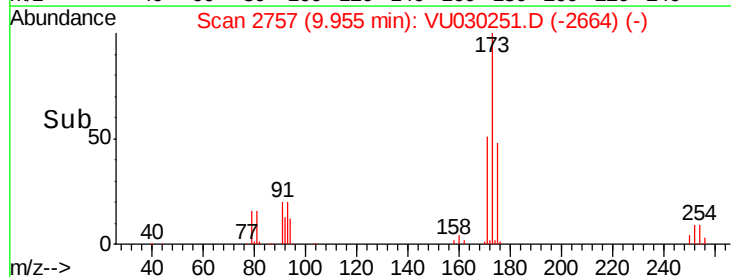
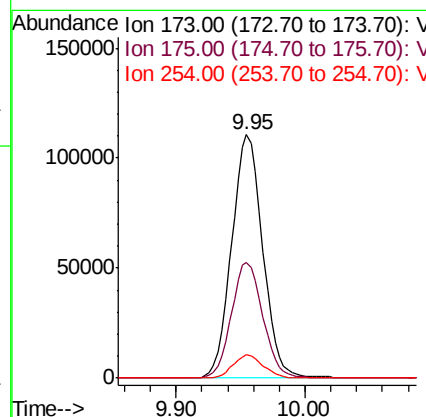
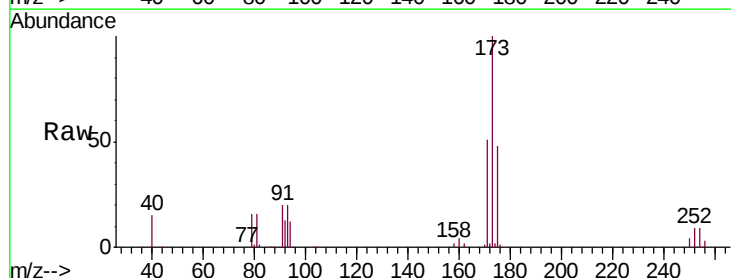
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

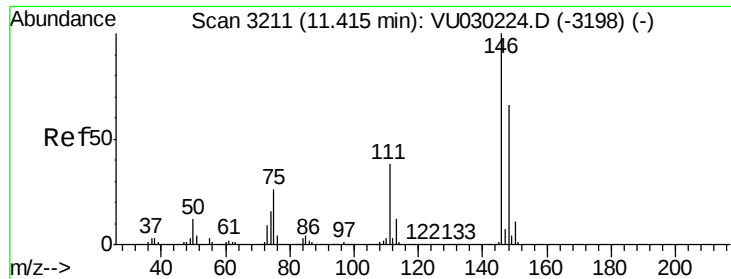
Tgt Ion: 75 Resp: 265565
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.8 38.8



#61
 Bromoform
 Concen: 49.892 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Tgt Ion: 173 Resp: 184632
 Ion Ratio Lower Upper
 173 100
 175 48.1 38.9 58.3
 254 9.2 7.4 11.0

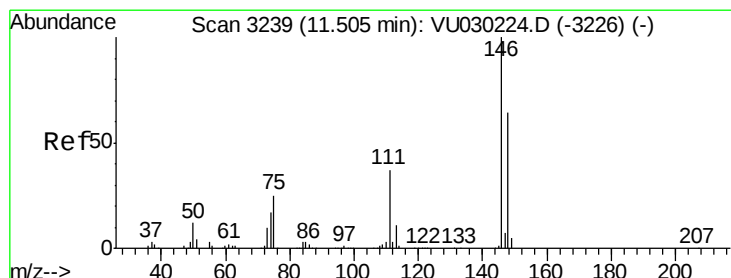
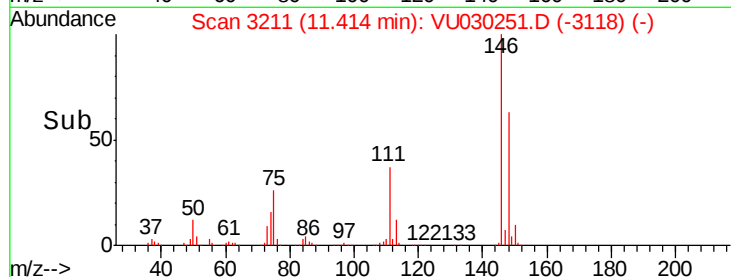
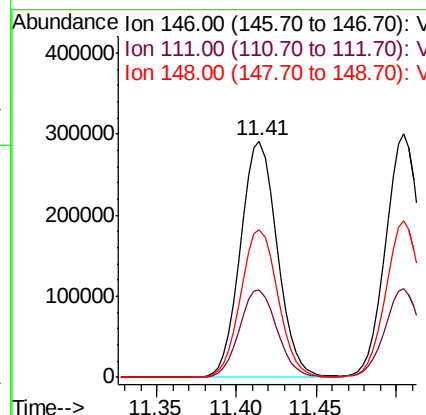
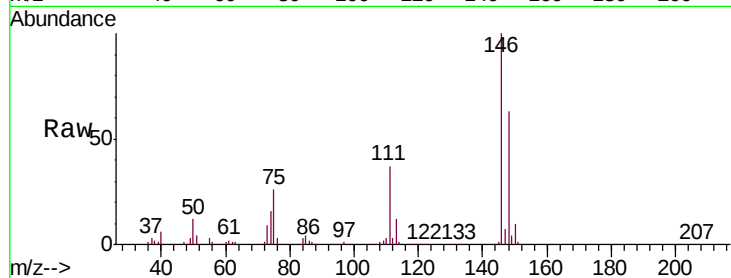




#62
 1,3-Dichlorobenzene
 Concen: 49.838 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

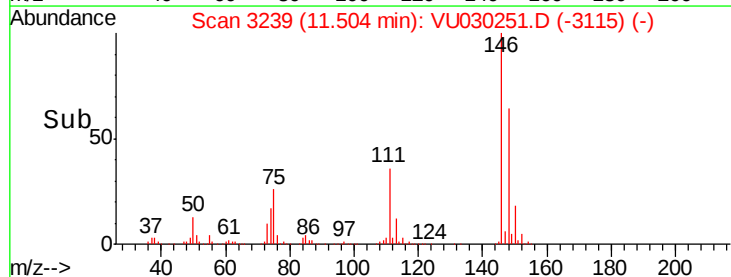
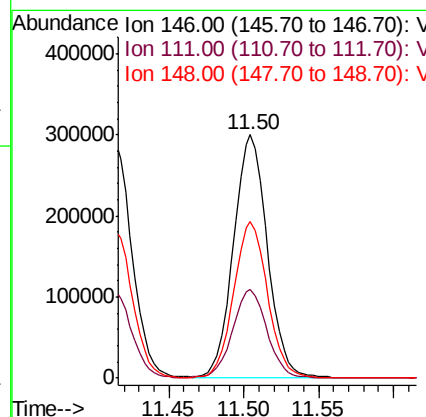
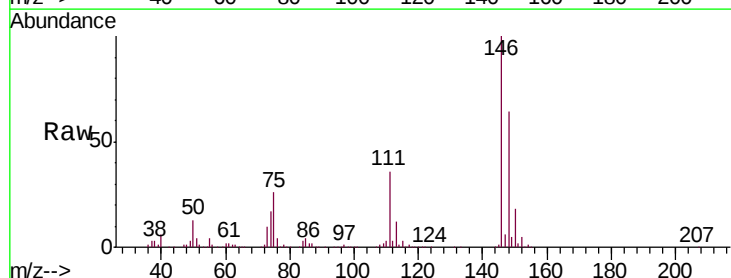
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

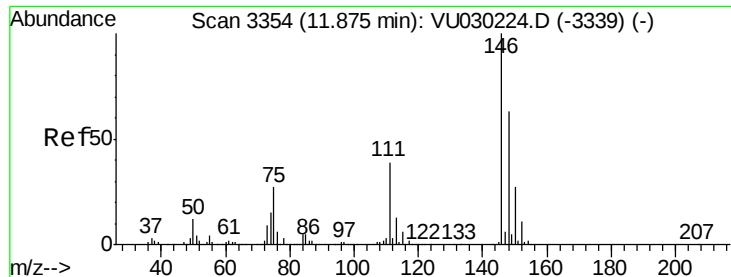
Tgt Ion:146 Resp: 455652
 Ion Ratio Lower Upper
 146 100
 111 36.9 27.2 50.4
 148 62.7 44.4 82.5



#63
 1,4-Dichlorobenzene
 Concen: 49.587 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Tgt Ion:146 Resp: 470252
 Ion Ratio Lower Upper
 146 100
 111 36.4 25.3 46.9
 148 64.3 44.7 82.9

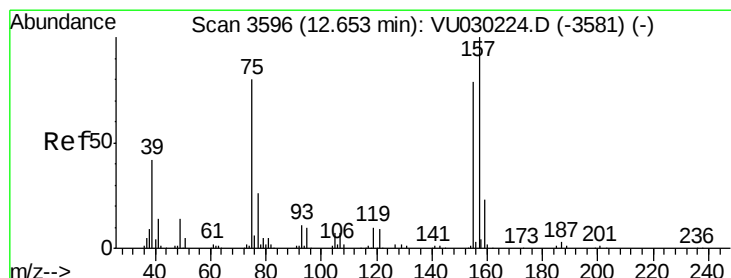
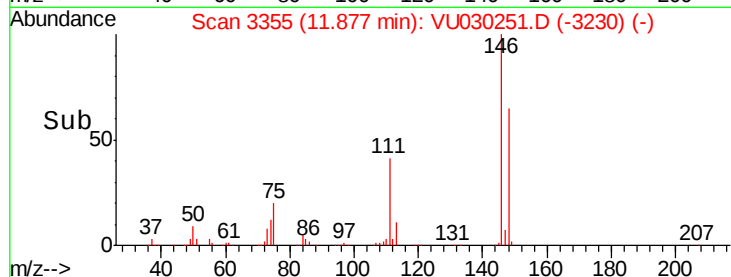
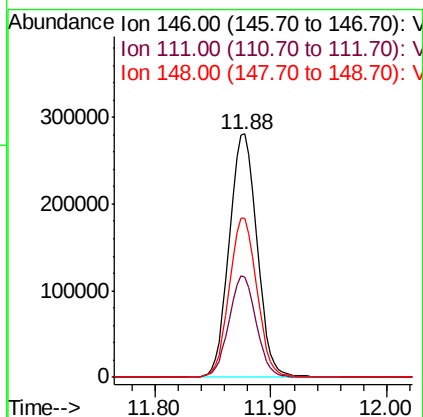
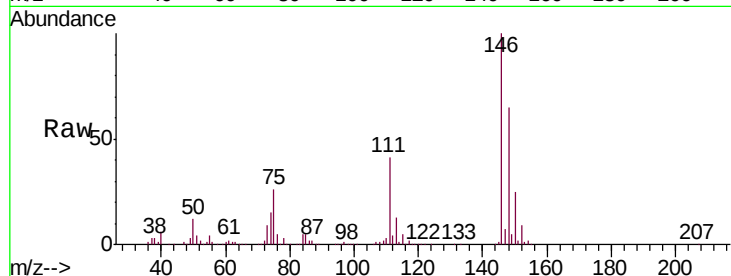




#65
 1,2-Dichlorobenzene
 Concen: 49.595 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

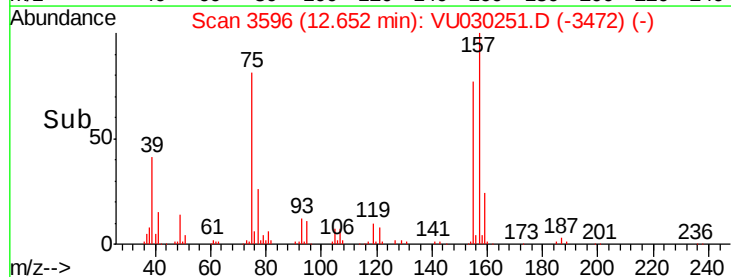
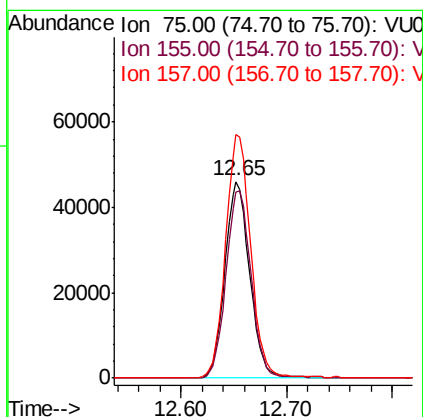
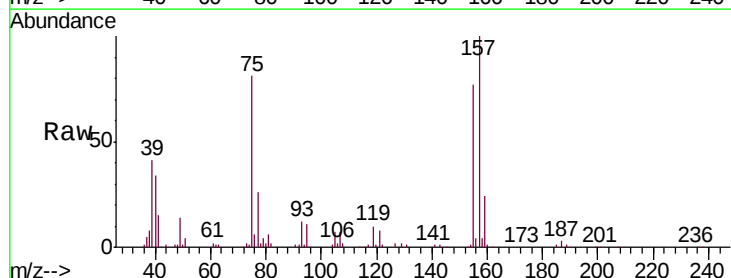
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

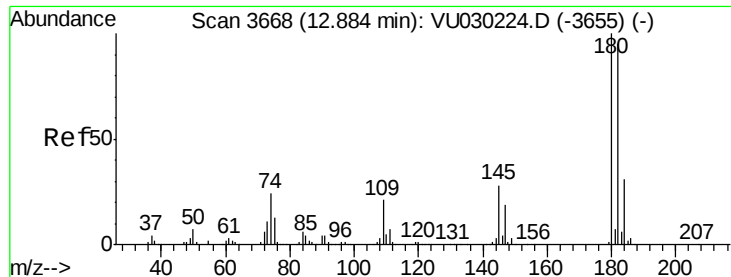
Tgt Ion:146 Resp: 463264
 Ion Ratio Lower Upper
 146 100
 111 41.2 31.7 47.5
 148 65.1 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.031 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Tgt Ion: 75 Resp: 75012
 Ion Ratio Lower Upper
 75 100
 155 94.8 80.7 121.1
 157 123.9 100.8 151.2

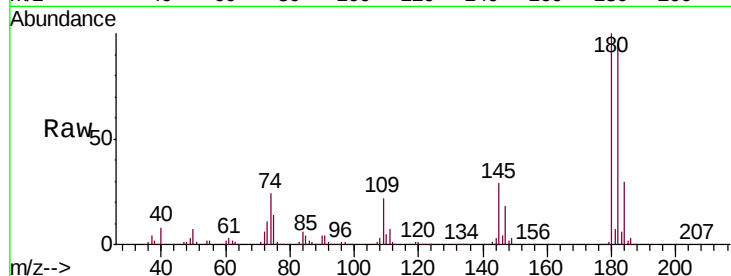




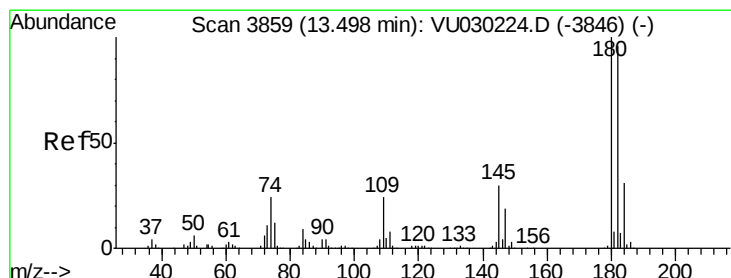
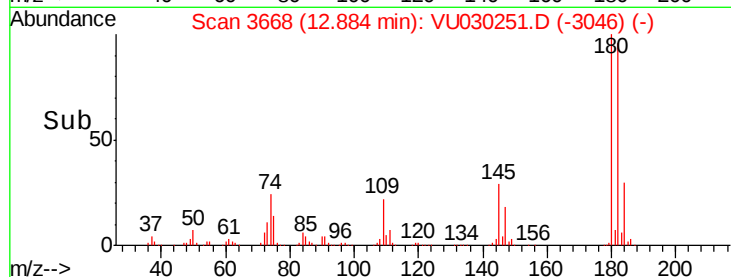
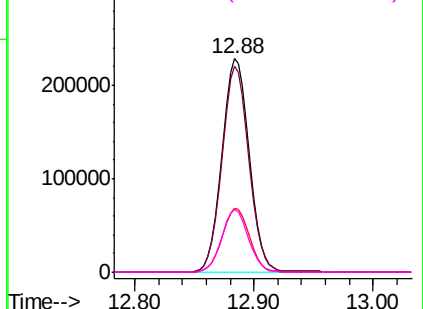
#67
 1,3,5-Trichlorobenzene
 Concen: 50.933 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.0	114.0
184	29.9	24.2	36.4
145	28.7	22.1	33.1

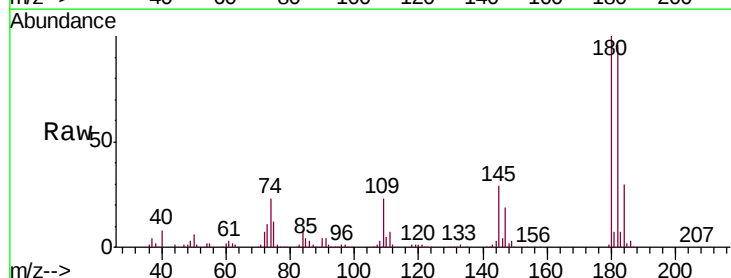


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

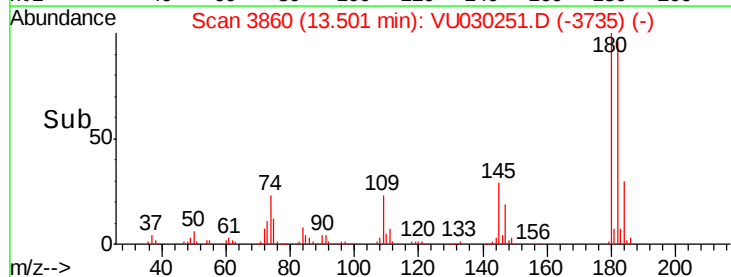
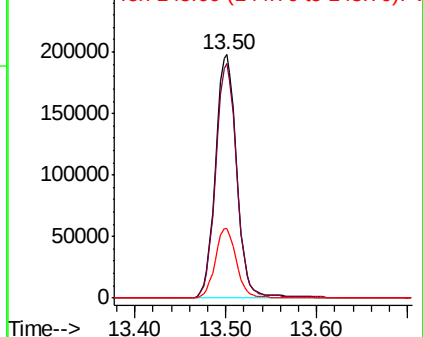


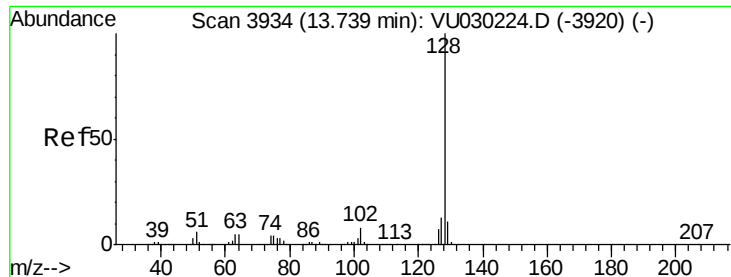
#68
 1,2,4-trichlorobenzene
 Concen: 51.064 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030251.D
 Acq: 21 Mar 2019 09:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.4	114.6
145	28.5	22.7	34.1



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





#69

Naphthalene

Concen: 46.598 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

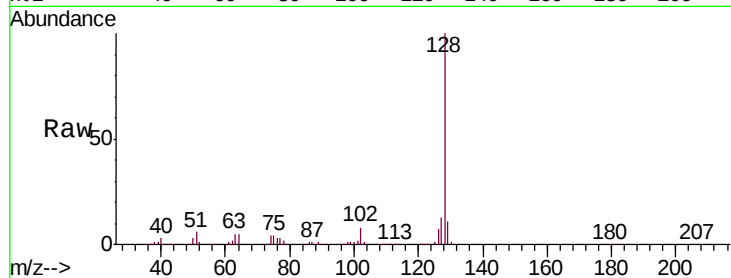
Tgt Ion:128 Resp: 934153

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.2

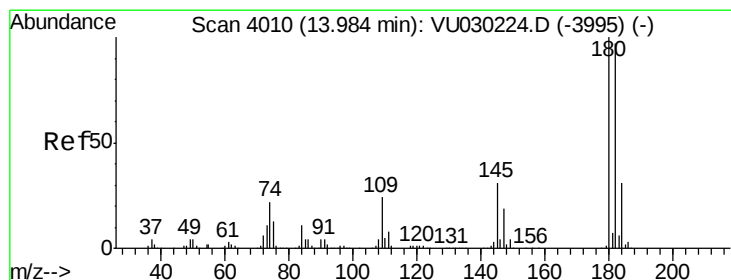
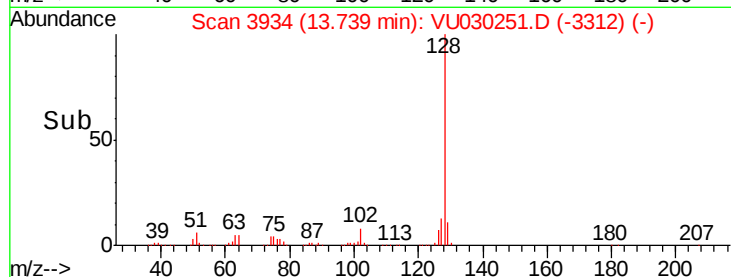
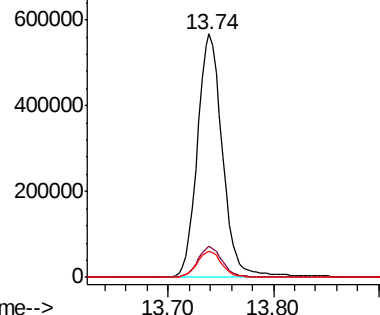
129 10.7 8.5 12.7



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



#70

1,2,3-Trichlorobenzene

Concen: 49.611 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030251.D

Acq: 21 Mar 2019 09:29

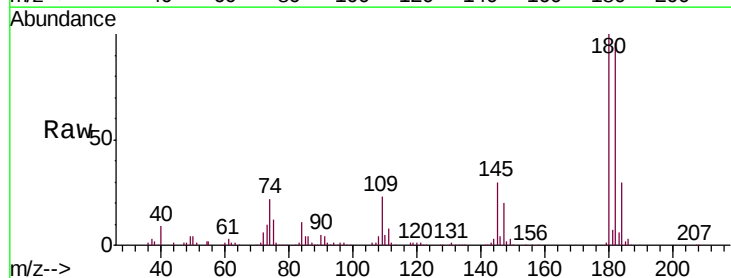
Tgt Ion:180 Resp: 327095

Ion Ratio Lower Upper

180 100

182 96.7 75.9 113.9

145 30.6 24.1 36.1



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

