

Data File : VU032191.D
Acq On : 21 May 2019 11:42
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Quant Time: May 22 01:59:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:50:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	859976	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	861867	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	435117	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	279399	49.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.62%
7) Chloroethane-d5	1.67	69	241499	49.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.82%
11) 1,1-Dichloroethene-d2	2.27	63	516314	48.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.68%
21) 2-Butanone-d5	4.17	46	374799	108.29	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.29%
24) Chloroform-d	4.64	84	554018	50.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.26%
26) 1,2-Dichloroethane-d4	5.30	65	320410	49.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.22%
32) Benzene-d6	5.33	84	1140172	50.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.78%
36) 1,2-Dichloropropane-d6	6.32	67	329368	50.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.84%
41) Toluene-d8	7.56	98	1094375	51.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.08%
43) trans-1,3-Dichloropropene-	7.85	79	164233	51.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.90%
47) 2-Hexanone-d5	8.31	63	324588	110.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.61%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	529108	50.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.12%
64) 1,2-Dichlorobenzene-d4	11.85	152	450589	49.51	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.02%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	326416	46.593	ug/L	99
3) Chloromethane	1.32	50	283806	46.403	ug/L	99
5) Vinyl chloride	1.40	62	322235	46.876	ug/L	99
6) Bromomethane	1.61	94	226896	48.640	ug/L	99
8) Chloroethane	1.69	64	193130	46.653	ug/L	96
9) Trichlorofluoromethane	1.88	101	449903	46.526	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	270719	46.706	ug/L	99
12) 1,1-Dichloroethene	2.28	96	268593	46.604	ug/L	99
13) Acetone	2.32	43	331484	94.062	ug/L	98
14) Carbon disulfide	2.47	76	779823	46.279	ug/L	99
15) Methyl Acetate	2.61	43	244483	48.626	ug/L	100
16) Methylene chloride	2.69	84	306297	46.303	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	283146	47.487	ug/L	97
18) Methyl tert-butyl Ether	3.00	73	830960	48.605	ug/L	100
19) 1,1-Dichloroethane	3.44	63	467113	46.398	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	318588	47.782	ug/L	98
22) 2-Butanone	4.26	43	401484	102.843	ug/L	97

Data File : VU032191.D
Acq On : 21 May 2019 11:42
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Quant Time: May 22 01:59:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:50:21 2019
Response via : Initial Calibration

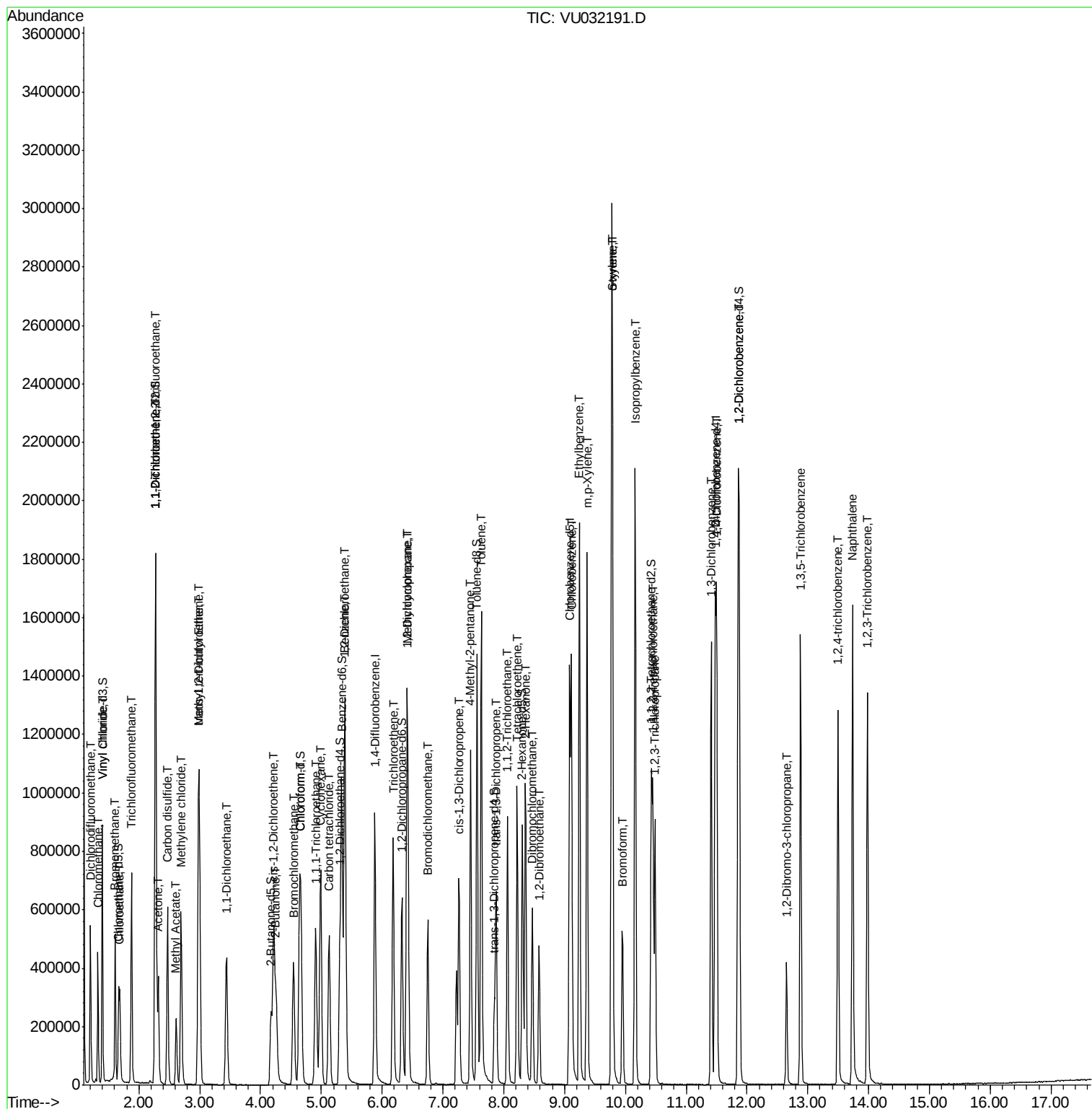
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	167171	46.649	ug/L	98
25) Chloroform	4.67	83	524233	47.308	ug/L	100
27) 1,2-Dichloroethane	5.40	62	379588	46.725	ug/L	98
29) Cyclohexane	4.99	56	402958	50.121	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	438424	47.664	ug/L	98
31) Carbon tetrachloride	5.13	117	385405	47.484	ug/L	96
33) Benzene	5.38	78	1169550	48.588	ug/L	100
34) Trichloroethene	6.18	95	305927	47.543	ug/L	98
35) Methylcyclohexane	6.41	83	478082	49.191	ug/L	100
37) 1,2-Dichloropropane	6.43	63	277708	47.276	ug/L	99
38) Bromodichloromethane	6.75	83	388547	47.924	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	465847	50.525	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	678148	100.981	ug/L	100
42) Toluene	7.63	91	1321657	49.725	ug/L	98
44) trans-1,3-Dichloropropene	7.87	75	401139	48.936	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	306176	48.098	ug/L	96
46) Tetrachloroethene	8.22	164	260792	49.079	ug/L	98
48) 2-Hexanone	8.36	43	576021	100.127	ug/L	100
49) Dibromochloromethane	8.47	129	328413	48.101	ug/L	100
50) 1,2-Dibromoethane	8.58	107	330363	49.197	ug/L	99
51) Chlorobenzene	9.12	112	847995	47.342	ug/L	98
52) Ethylbenzene	9.24	91	1427949	49.832	ug/L	100
53) m,p-Xylene	9.37	106	567452	50.278	ug/L	94
54) o-xylene	9.77	106	555365	49.865	ug/L	94
55) Styrene	9.79	104	974948	51.272	ug/L	99
56) Isopropylbenzene	10.16	105	1429004	49.949	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	505116	47.375	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	390094	48.002	ug/L	100
61) Bromoform	9.95	173	252777	45.671	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	675653	47.594	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	689763	46.225	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	693267	46.694	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	108871	47.438	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	528657	48.695	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	436997	51.631	ug/L	98
69) Naphthalene	13.74	128	1404150	54.668	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	472981	49.729	ug/L	98

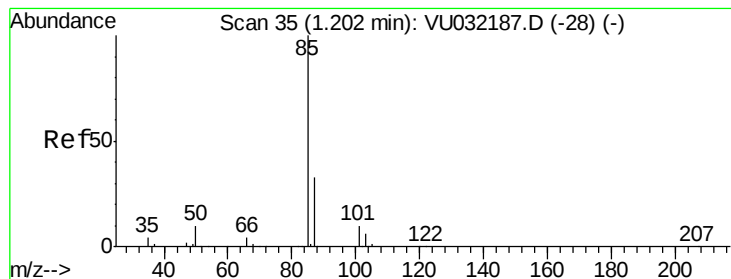
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU032191.D
Acq On : 21 May 2019 11:42
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Quant Time: May 22 01:59:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:50:21 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 46.593 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

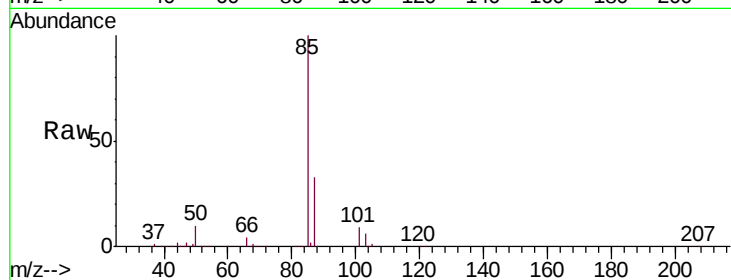
VSTD05048

Tgt Ion: 85 Resp: 326416

Ion Ratio Lower Upper

85 100

87 32.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU032187.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032187.D (-28) (-)

1.20

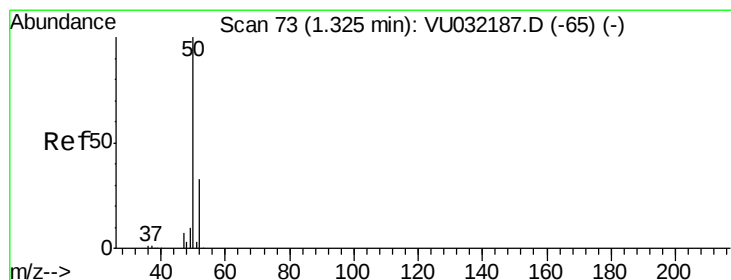
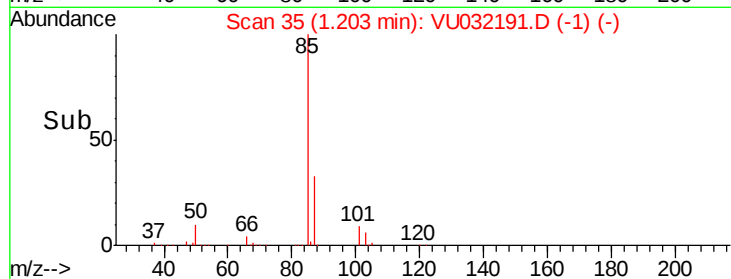
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 46.403 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032191.D

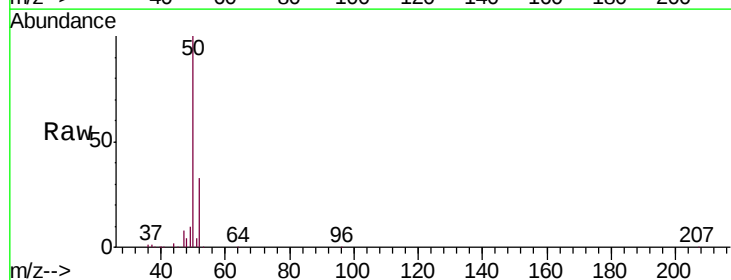
Acq: 21 May 2019 11:42

Tgt Ion: 50 Resp: 283806

Ion Ratio Lower Upper

50 100

52 33.3 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU032187.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU032187.D (-65) (-)

1.32

300000

250000

200000

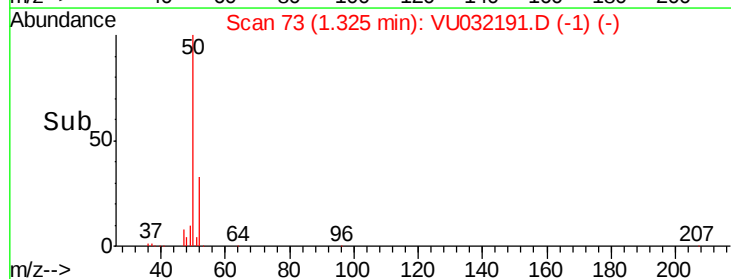
150000

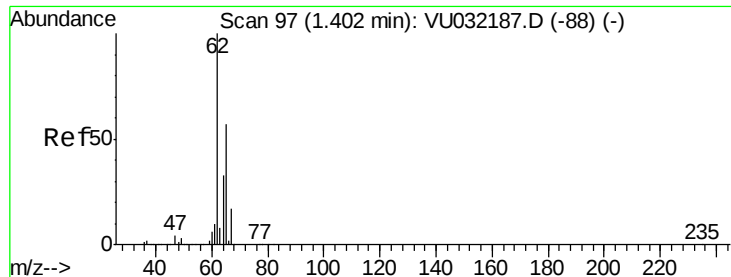
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 46.876 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

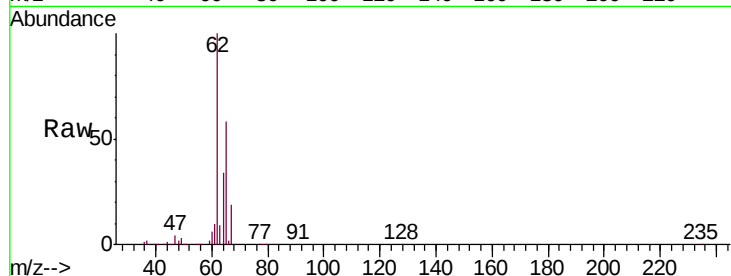
VSTD05048

Tgt Ion: 62 Resp: 322235

Ion Ratio Lower Upper

62 100

64 34.0 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU032187.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032187.D (-88) (-)

1.40

300000

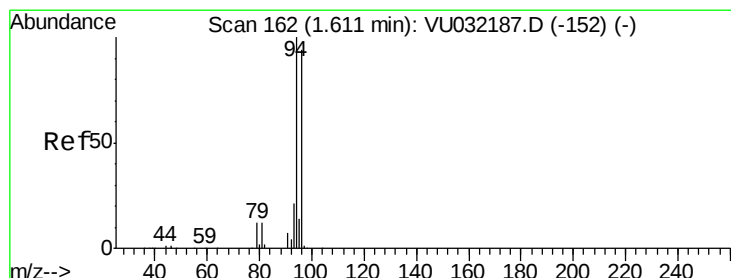
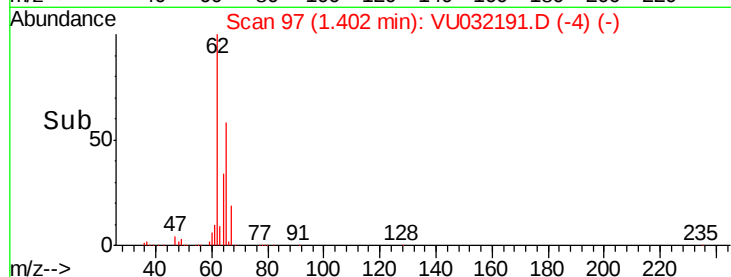
200000

100000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 48.640 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU032191.D

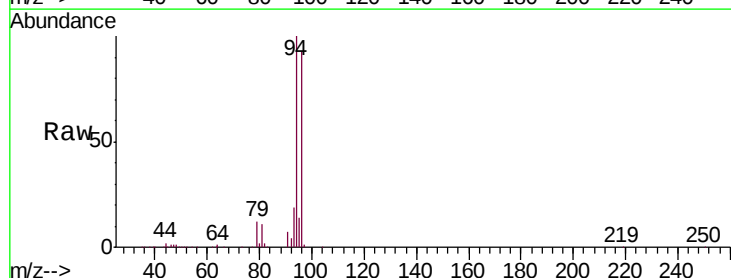
Acq: 21 May 2019 11:42

Tgt Ion: 94 Resp: 226896

Ion Ratio Lower Upper

94 100

96 93.4 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU032187.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU032187.D (-152) (-)

1.61

200000

150000

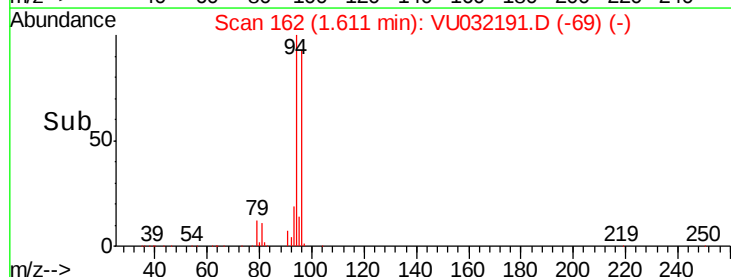
100000

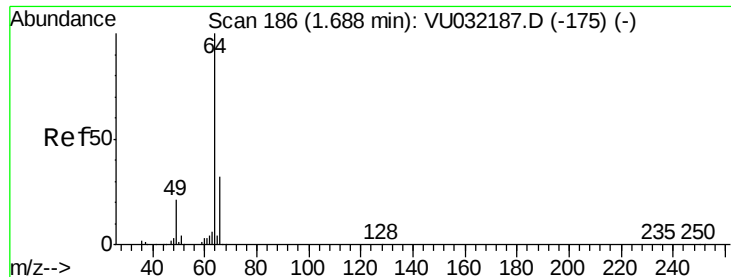
50000

0

1.55 1.60 1.65

Time-->





#8

Chloroethane

Concen: 46.653 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

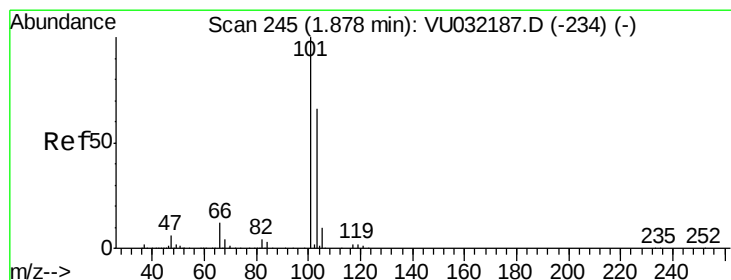
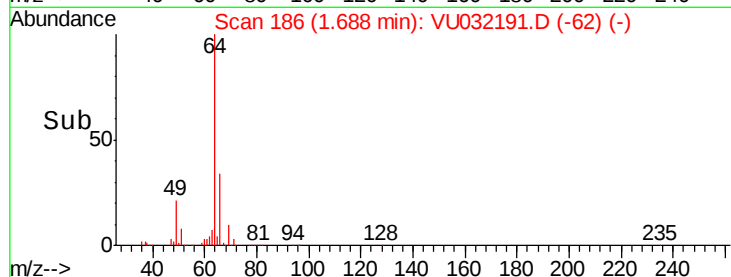
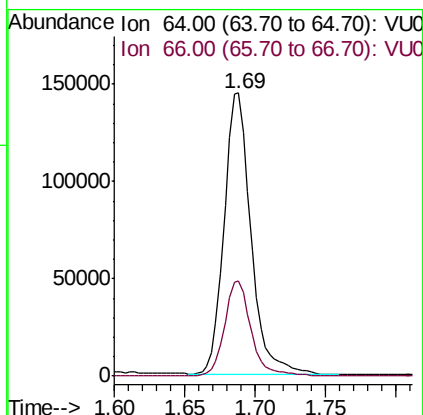
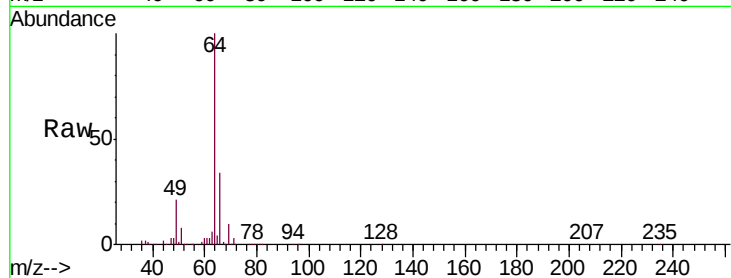
VSTD05048

Tgt Ion: 64 Resp: 193130

Ion Ratio Lower Upper

64 100

66 33.7 22.1 41.1



#9

Trichlorofluoromethane

Concen: 46.526 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU032191.D

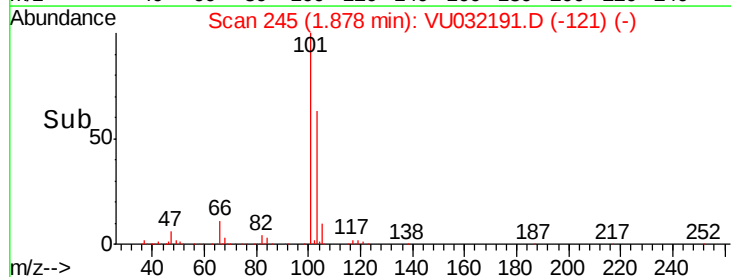
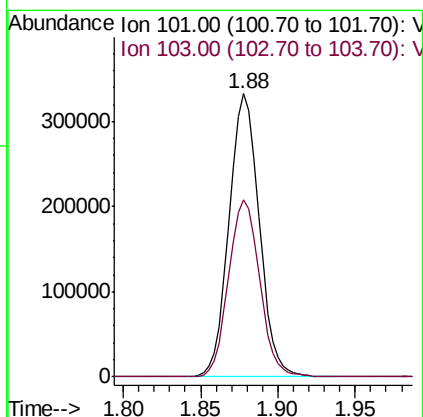
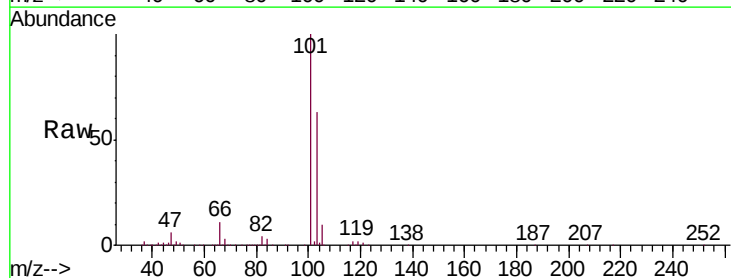
Acq: 21 May 2019 11:42

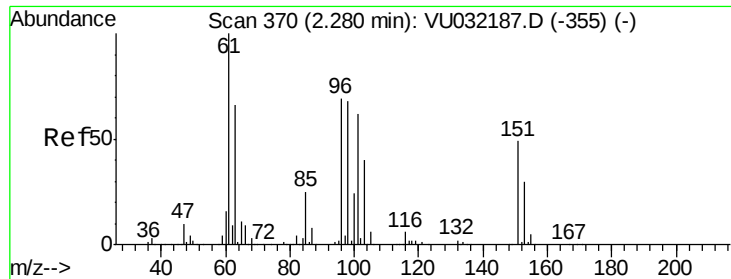
Tgt Ion: 101 Resp: 449903

Ion Ratio Lower Upper

101 100

103 64.4 52.5 78.7





#10

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

Concen: 46.706 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

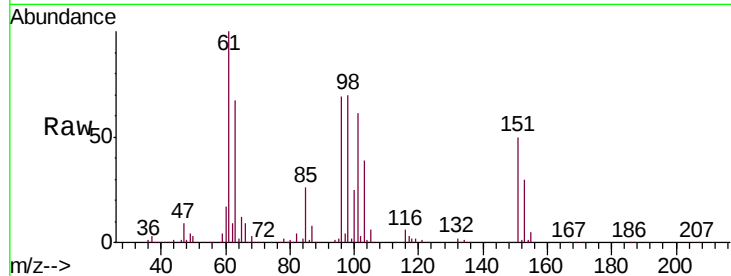
Tgt Ion: 101 Resp: 270719

Ion Ratio Lower Upper

101 100

85 41.6 32.5 48.7

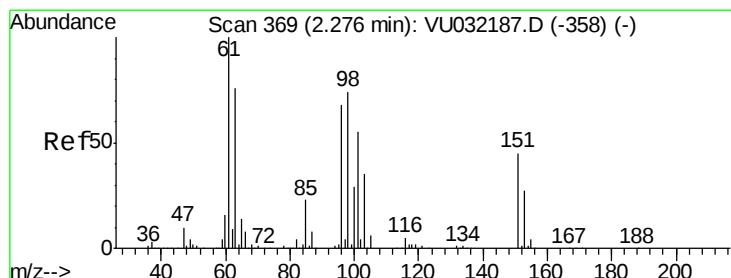
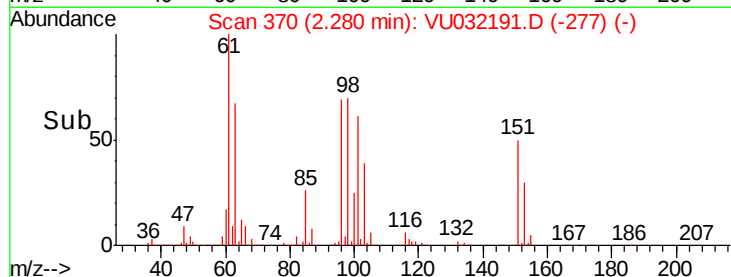
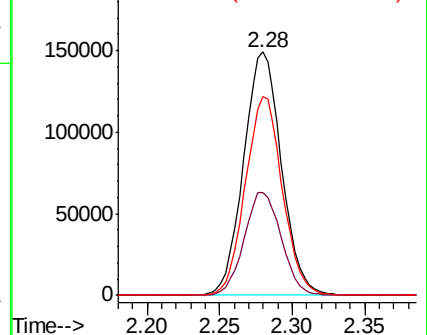
151 80.1 63.1 94.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 46.604 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

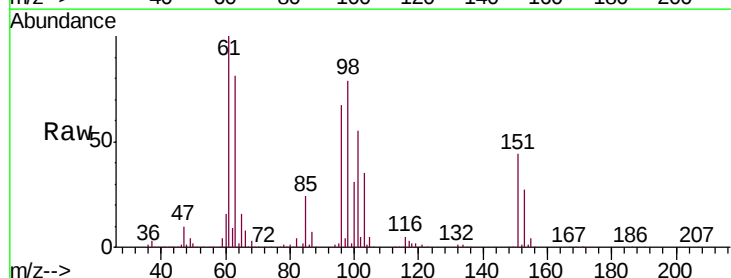
Tgt Ion: 96 Resp: 268593

Ion Ratio Lower Upper

96 100

61 149.1 103.7 192.7

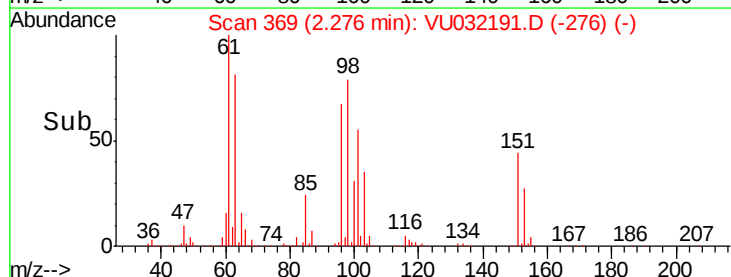
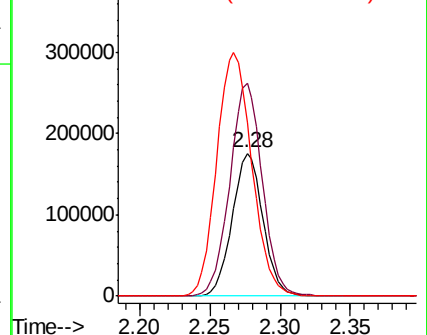
63 121.3 83.3 154.7

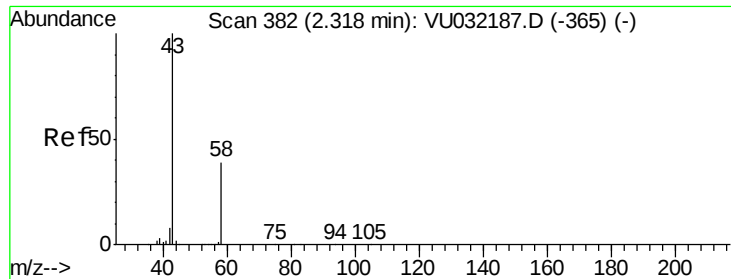


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 94.062 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

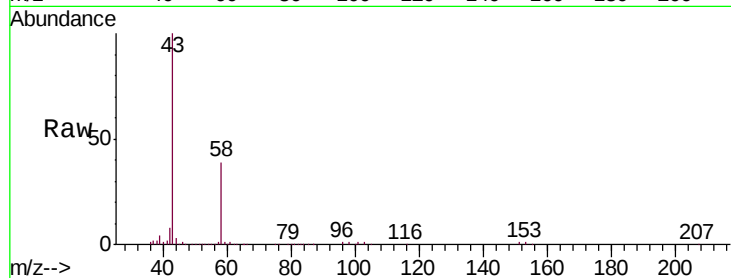
VSTD05048

Tgt Ion: 43 Resp: 331484

Ion Ratio Lower Upper

43 100

58 39.5 0.0 76.8



Abundance Ion 43.00 (42.70 to 43.70): VU032187.D (-365) (-)

Ion 58.00 (57.70 to 58.70): VU032187.D (-365) (-)

2.32

200000

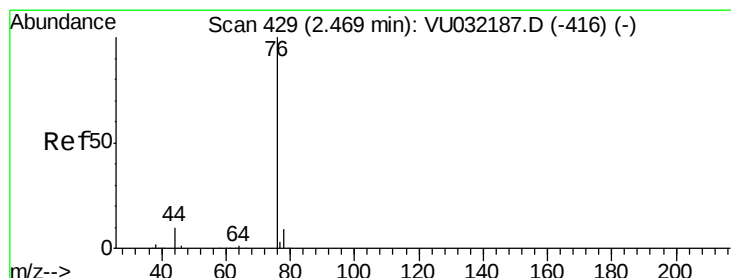
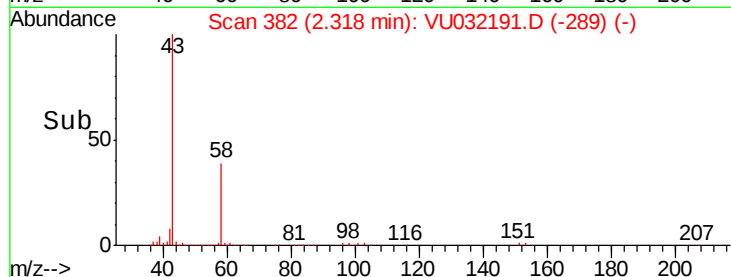
150000

100000

50000

0

Time--> 2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 46.279 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU032191.D

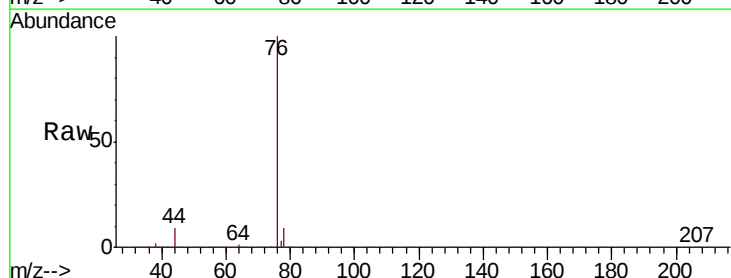
Acq: 21 May 2019 11:42

Tgt Ion: 76 Resp: 779823

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU032187.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU032187.D (-416) (-)

2.47

500000

400000

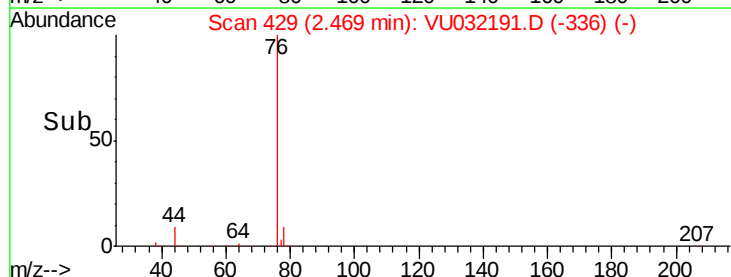
300000

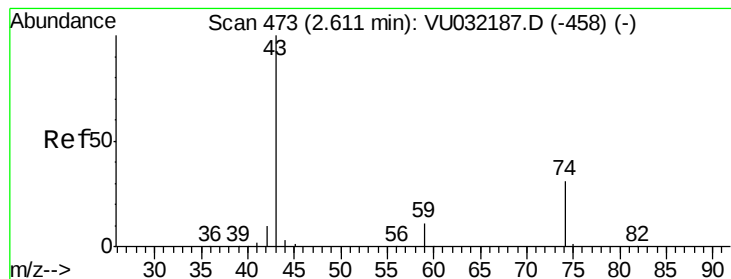
200000

100000

0

Time--> 2.40 2.45 2.50 2.55 2.60





#15

Methyl Acetate

Concen: 48.626 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

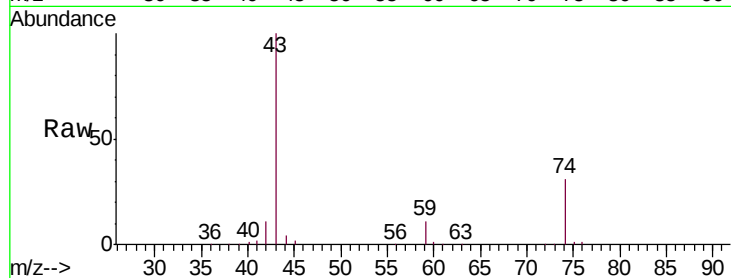
VSTD05048

Tgt Ion: 43 Resp: 244483

Ion Ratio Lower Upper

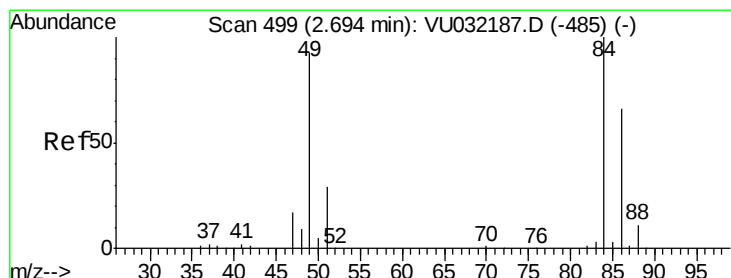
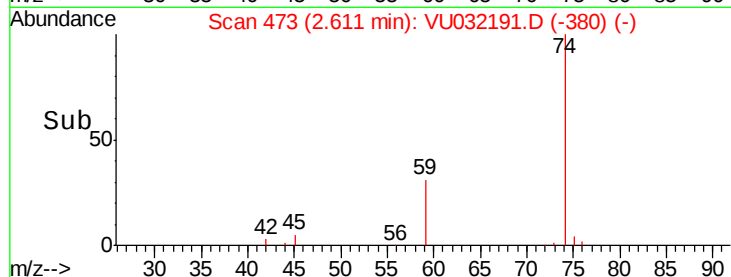
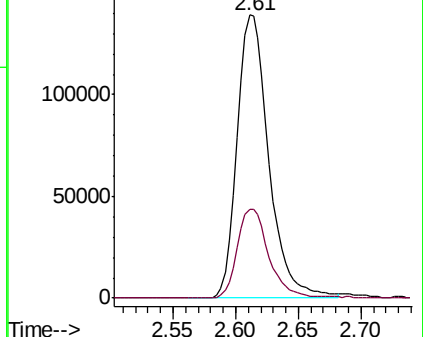
43 100

74 31.5 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VU032191.D (-380) (-)

Ion 74.00 (73.70 to 74.70): VU032191.D (-380) (-)



#16

Methylene chloride

Concen: 46.303 ug/L

RT: 2.69 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

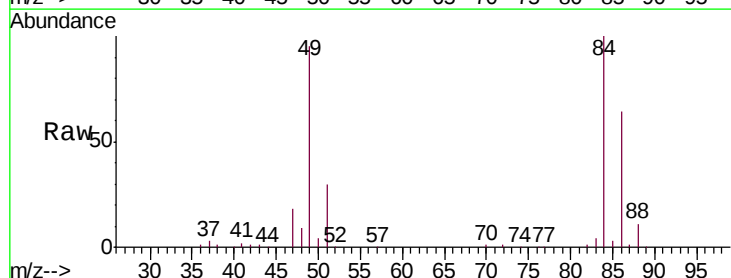
Tgt Ion: 84 Resp: 306297

Ion Ratio Lower Upper

84 100

86 63.7 46.0 85.4

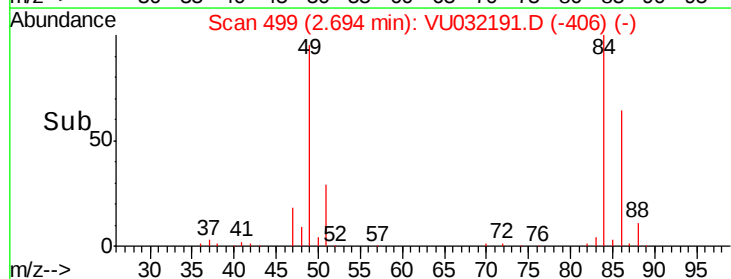
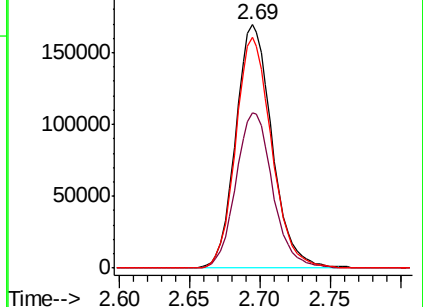
49 94.9 64.8 120.4

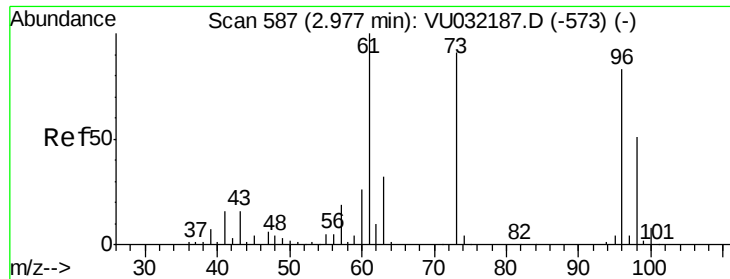


Abundance Ion 84.00 (83.70 to 84.70): VU032191.D (-406) (-)

Ion 86.00 (85.70 to 86.70): VU032191.D (-406) (-)

Ion 49.00 (48.70 to 49.70): VU032191.D (-406) (-)

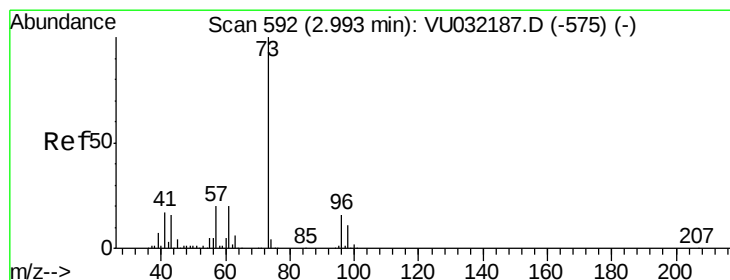
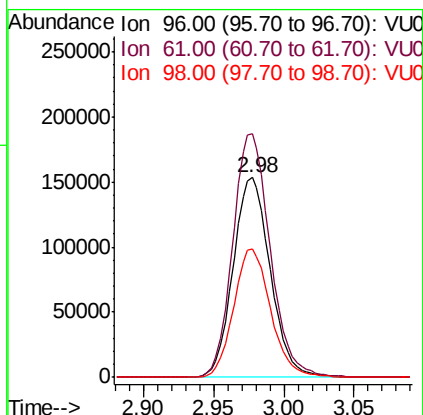
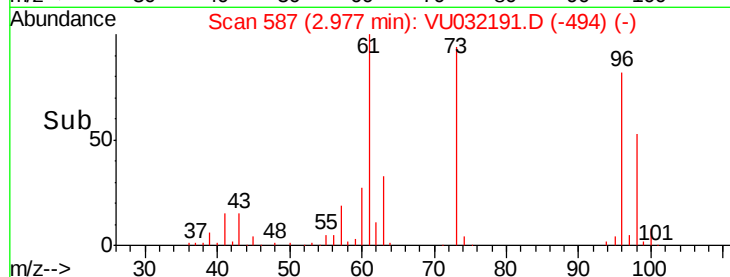
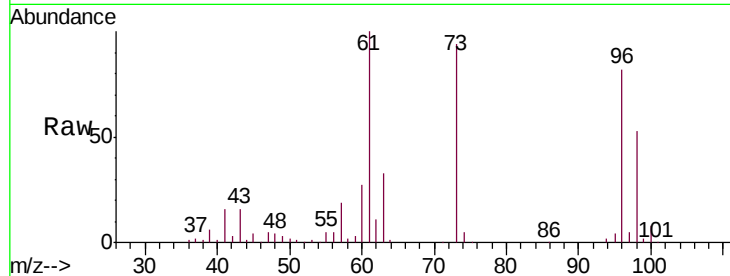




#17
 trans-1,2-Dichloroethene
 Concen: 47.487 ug/L
 RT: 2.98 min Scan# 587
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

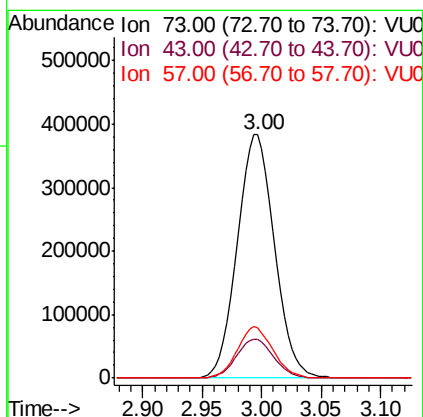
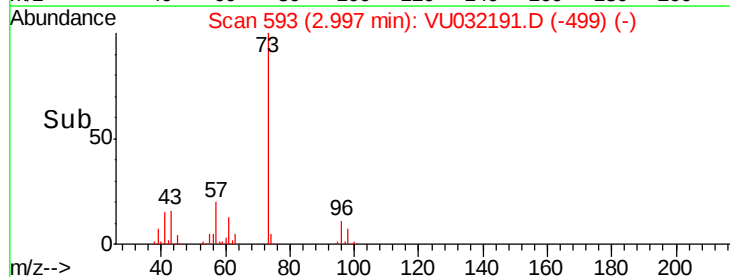
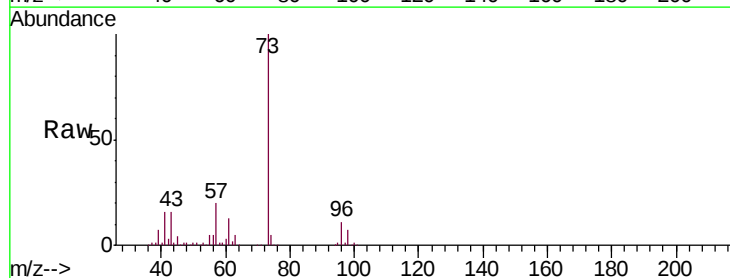
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

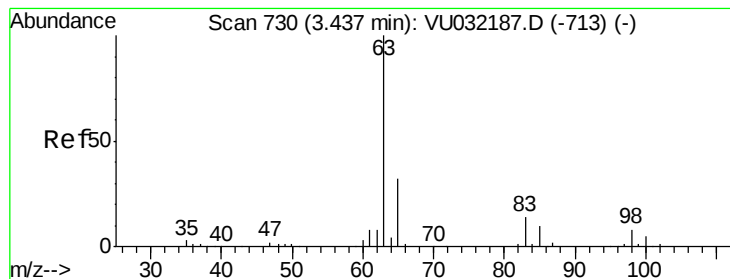
Tgt Ion: 96 Resp: 283146
 Ion Ratio Lower Upper
 96 100
 61 121.8 83.9 155.9
 98 64.2 42.4 78.8



#18
 Methyl tert-butyl Ether
 Concen: 48.605 ug/L
 RT: 3.00 min Scan# 593
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

Tgt Ion: 73 Resp: 830960
 Ion Ratio Lower Upper
 73 100
 43 16.3 13.0 19.6
 57 20.3 16.1 24.1





#19

1,1-Dichloroethane

Concen: 46.398 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

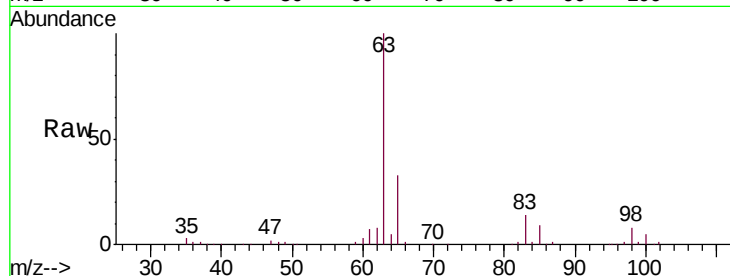
Tgt Ion: 63 Resp: 467113

Ion Ratio Lower Upper

63 100

65 32.7 22.4 41.6

83 13.6 10.1 18.7

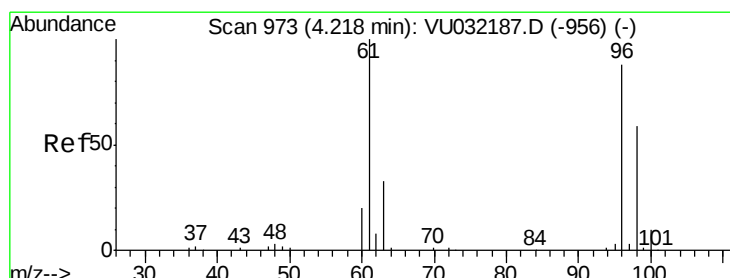
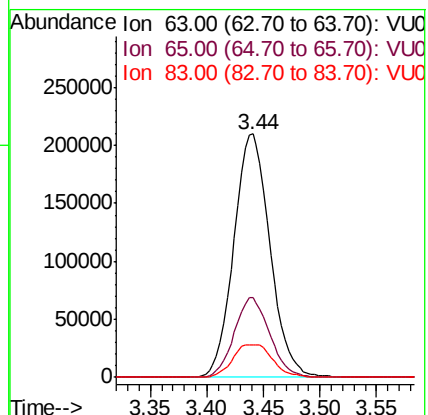
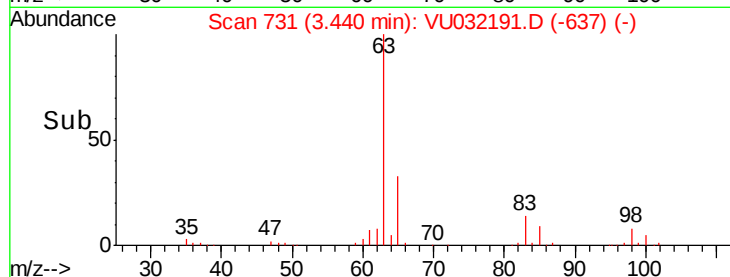


Abundance Ion 63.00 (62.70 to 63.70): VU032187.D (-713) (-)

Ion 65.00 (64.70 to 65.70): VU032187.D (-713) (-)

Ion 83.00 (82.70 to 83.70): VU032187.D (-713) (-)

Time-->



#20

cis-1,2-Dichloroethene

Concen: 47.782 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

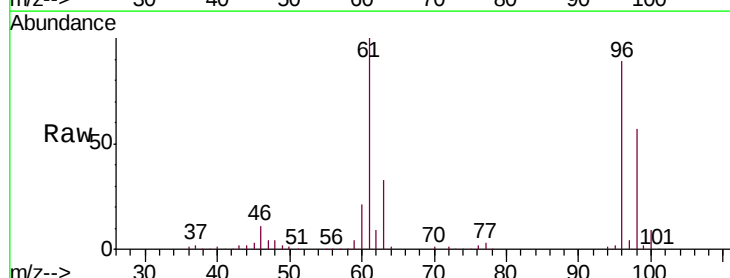
Tgt Ion: 96 Resp: 318588

Ion Ratio Lower Upper

96 100

61 112.3 79.9 148.3

68 0.0 0.0 0.0

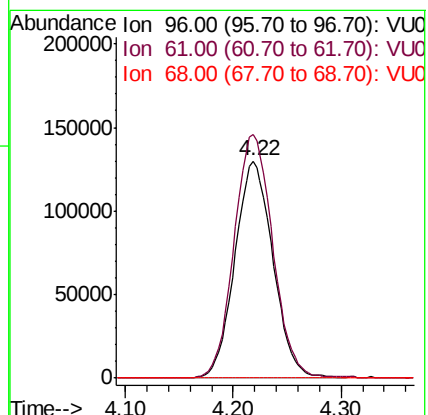
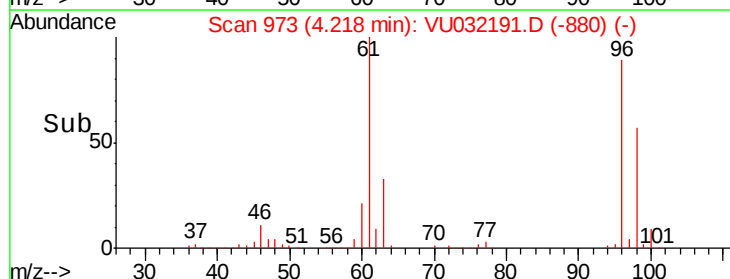


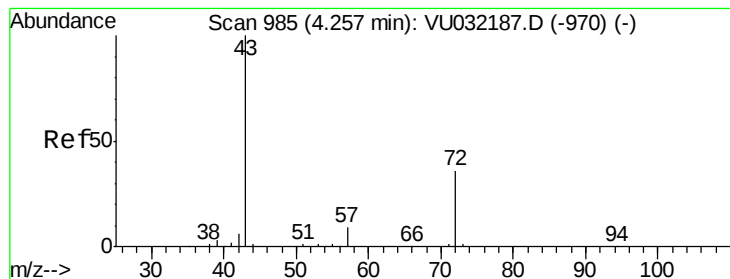
Abundance Ion 96.00 (95.70 to 96.70): VU032187.D (-956) (-)

Ion 61.00 (60.70 to 61.70): VU032187.D (-956) (-)

Ion 68.00 (67.70 to 68.70): VU032187.D (-956) (-)

Time-->





#22

2-Butanone

Concen: 102.843 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

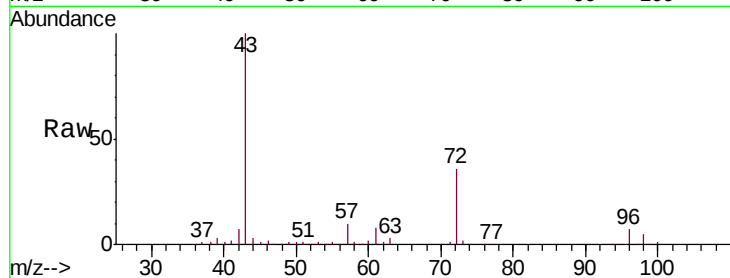
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion: 43 Resp: 401484

Ion Ratio Lower Upper

43 100

72 37.0 17.8 53.3



Abundance Ion 43.00 (42.70 to 43.70): VU032187.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU032187.D (-970) (-)

4.26

150000

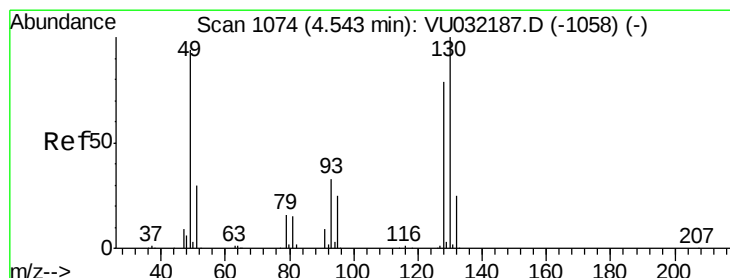
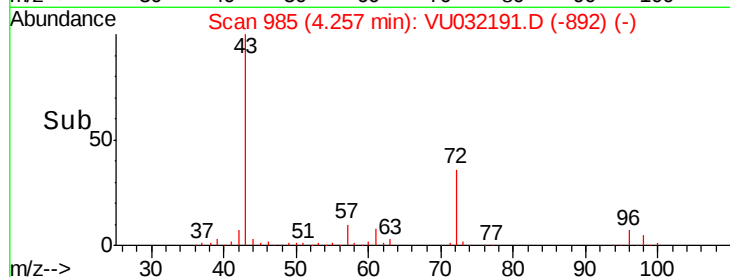
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 46.649 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Tgt Ion: 128 Resp: 167171

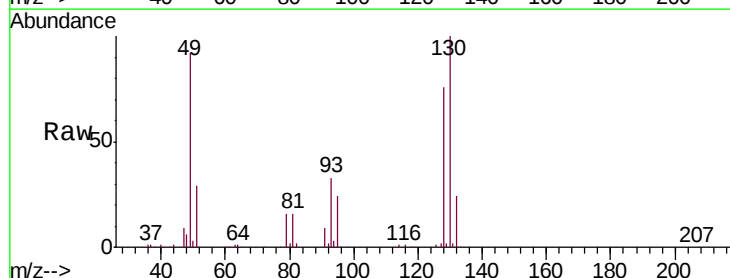
Ion Ratio Lower Upper

128 100

49 120.6 83.5 155.1

130 130.7 89.2 165.6

51 37.4 30.9 46.3



Abundance Ion 128.00 (127.70 to 128.70): VU032187.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU032187.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU032187.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU032187.D (-1058) (-)

4.54

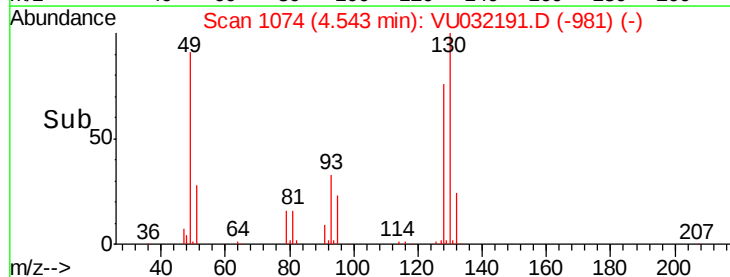
100000

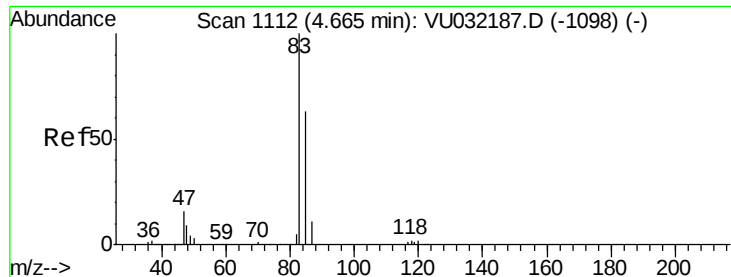
50000

0

4.50 4.60

Time-->

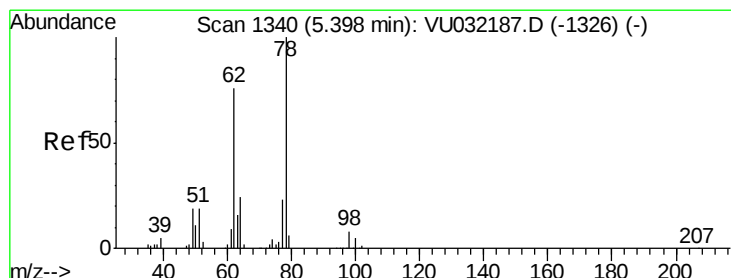
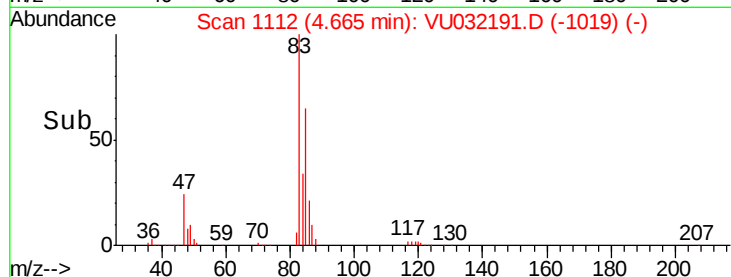
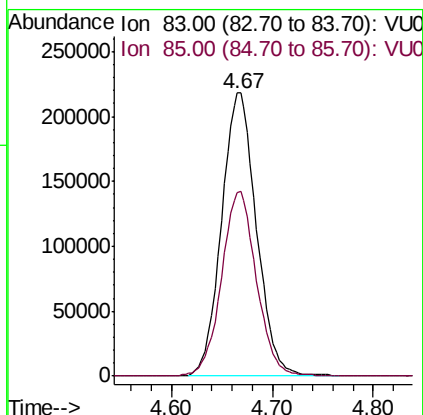
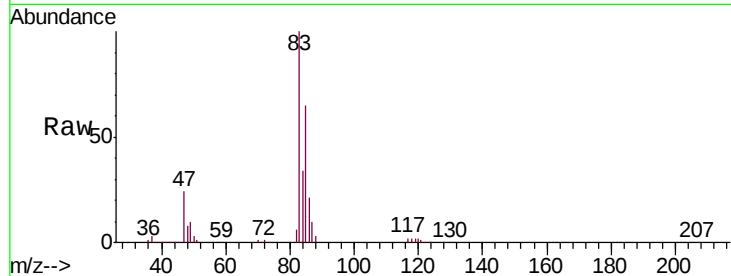




#25
Chloroform
Concen: 47.308 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU032191.D
Acq: 21 May 2019 11:42

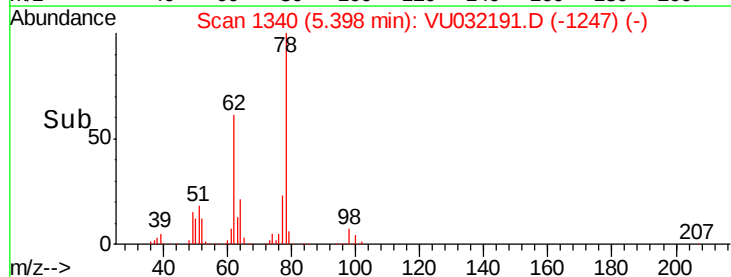
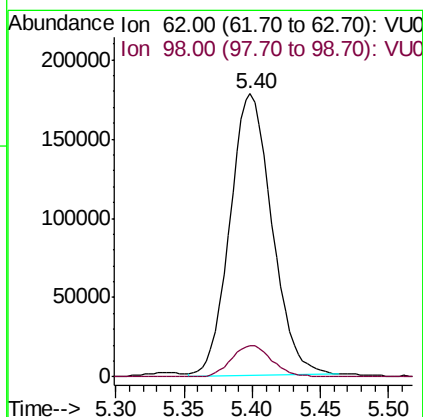
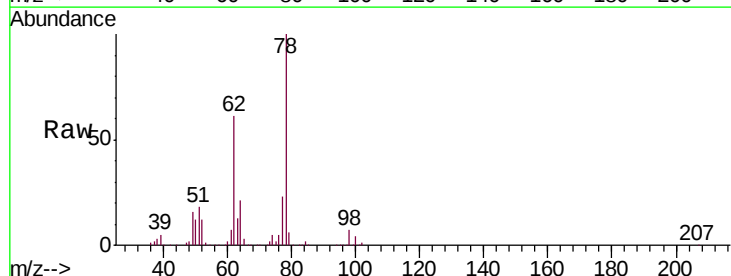
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

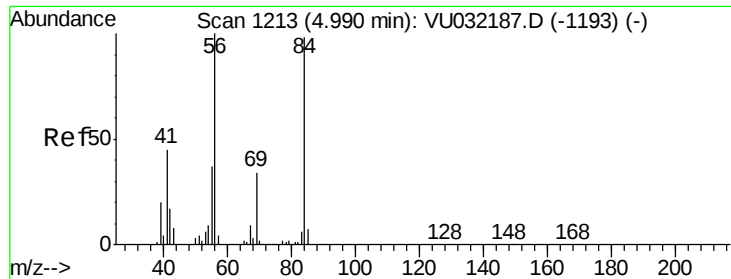
Tgt Ion: 83 Resp: 524233
Ion Ratio Lower Upper
83 100
85 64.7 45.3 84.1



#27
1,2-Dichloroethane
Concen: 46.725 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU032191.D
Acq: 21 May 2019 11:42

Tgt Ion: 62 Resp: 379588
Ion Ratio Lower Upper
62 100
98 10.9 8.2 12.2

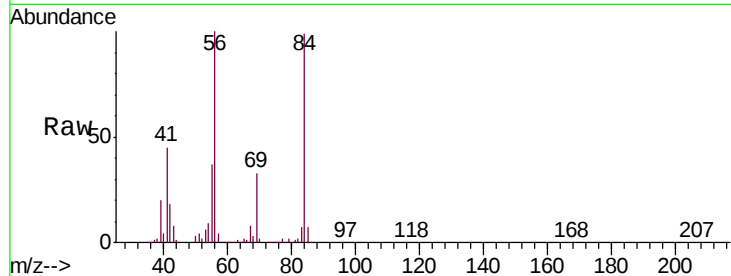




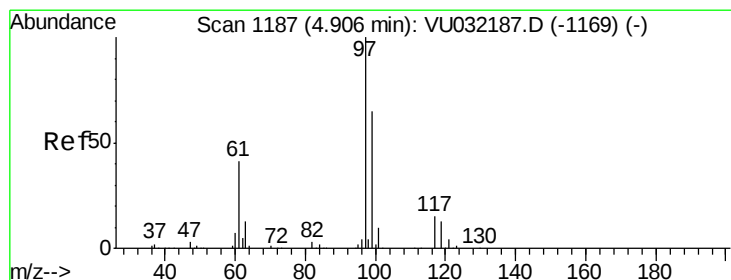
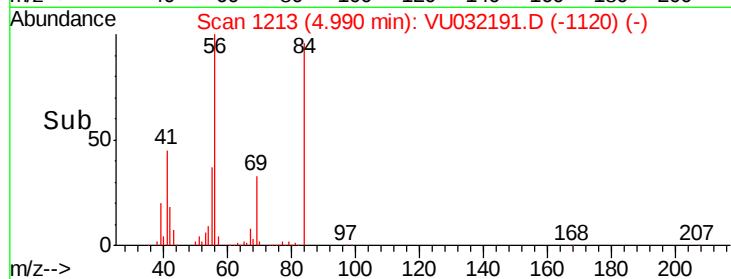
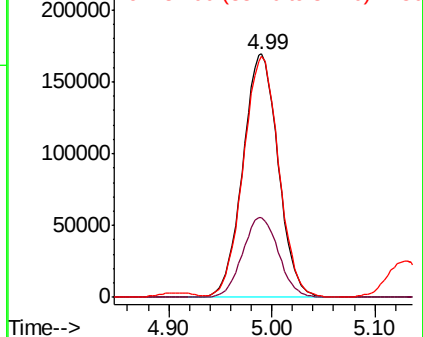
#29
Cyclohexane
Concen: 50.121 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU032191.D
Acq: 21 May 2019 11:42

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion: 56 Resp: 402958
Ion Ratio Lower Upper
56 100
69 33.3 27.6 41.4
84 99.2 79.3 118.9

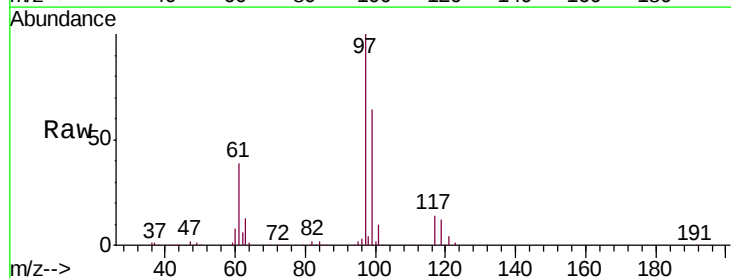


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

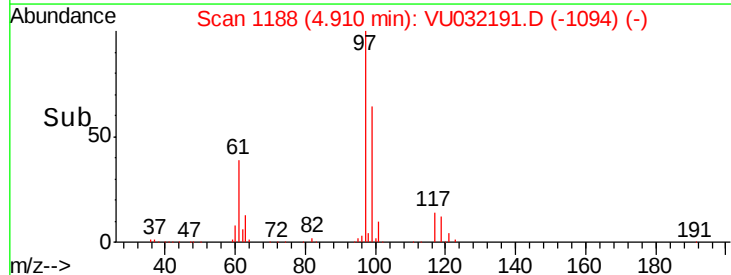
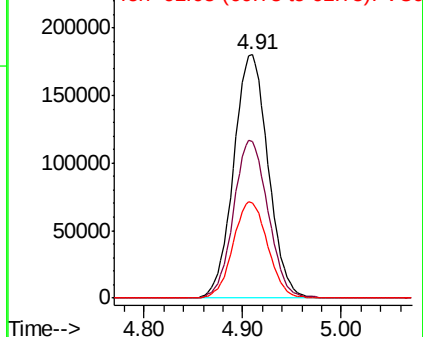


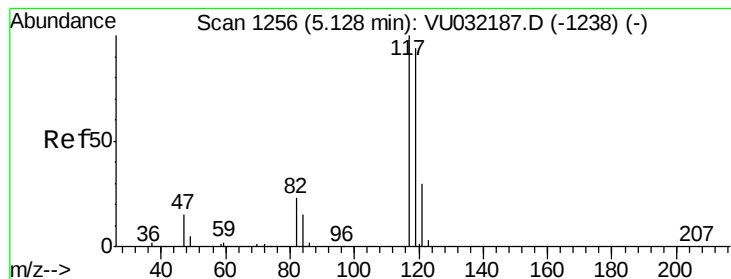
#30
1,1,1-Trichloroethane
Concen: 47.664 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU032191.D
Acq: 21 May 2019 11:42

Tgt Ion: 97 Resp: 438424
Ion Ratio Lower Upper
97 100
99 64.8 51.4 77.2
61 39.6 33.4 50.0



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 47.484 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

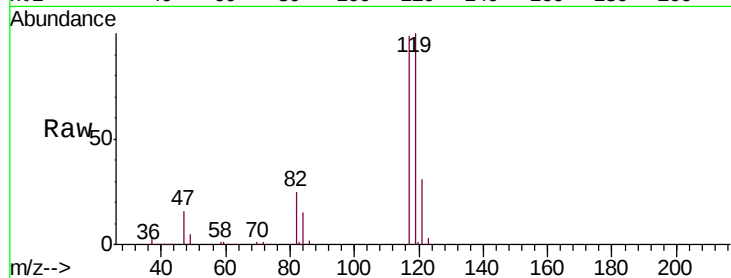
VSTD05048

Tgt Ion:117 Resp: 385405

Ion Ratio Lower Upper

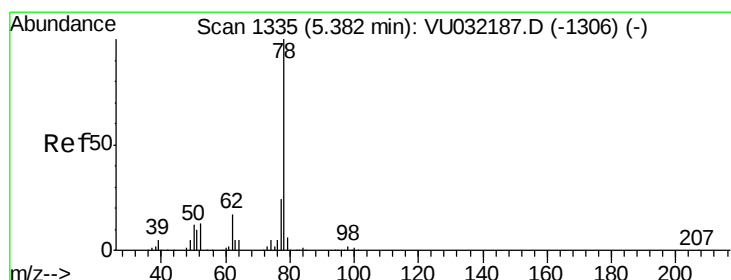
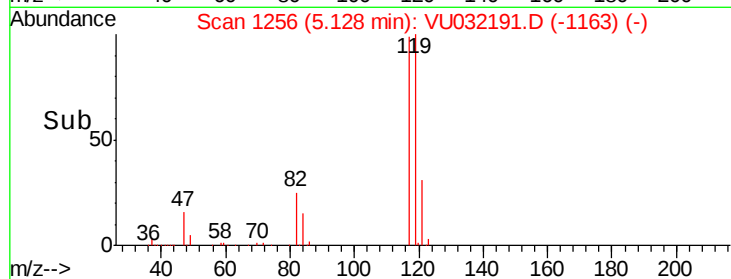
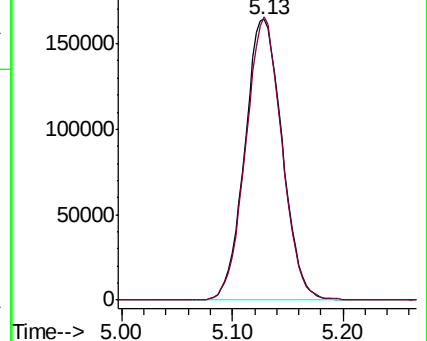
117 100

119 97.7 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.588 ug/L

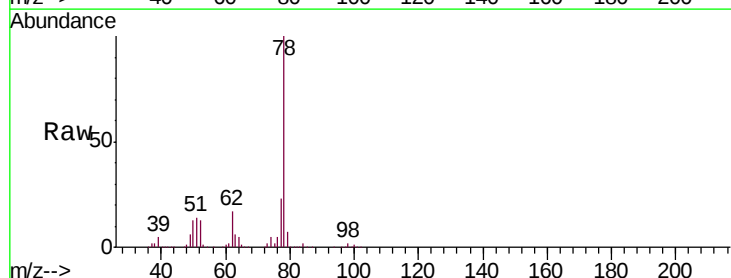
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

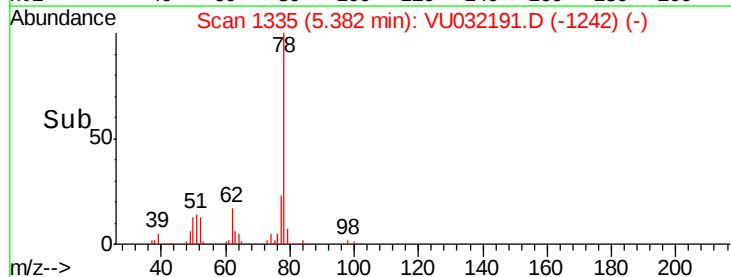
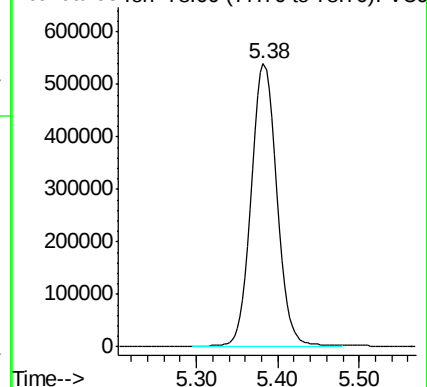
Lab File: VU032191.D

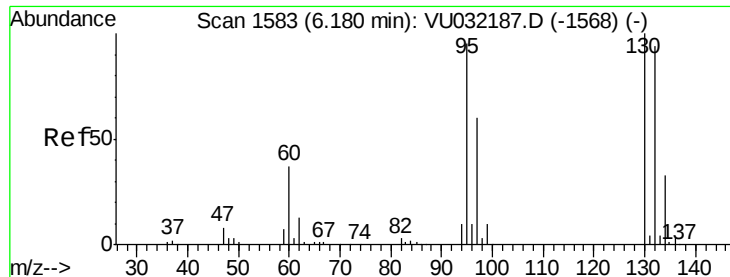
Acq: 21 May 2019 11:42

Tgt Ion: 78 Resp: 1169550



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 47.543 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tgt Ion: 95 Resp: 305927

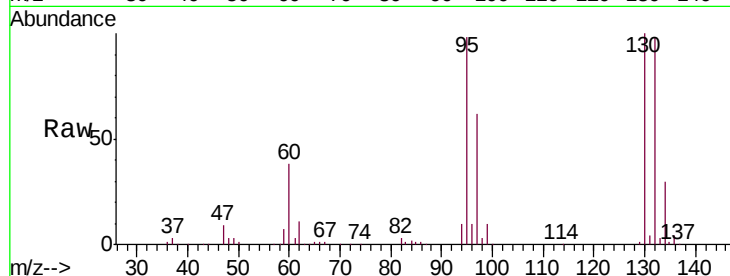
Ion Ratio Lower Upper

95 100

97 63.3 44.5 82.7

132 99.7 69.4 129.0

130 101.6 73.8 137.0

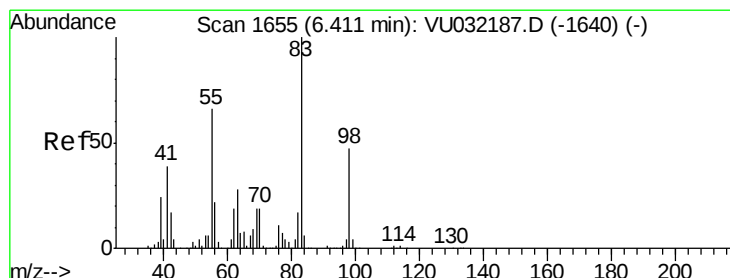
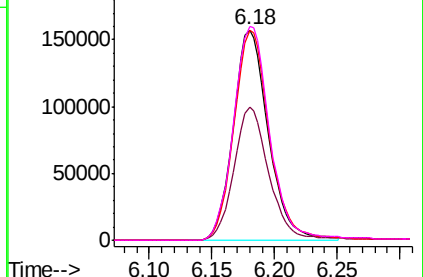
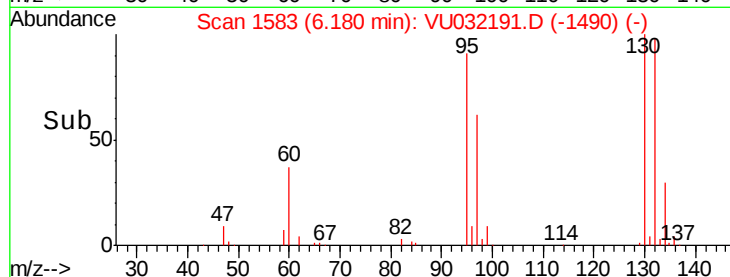


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 49.191 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

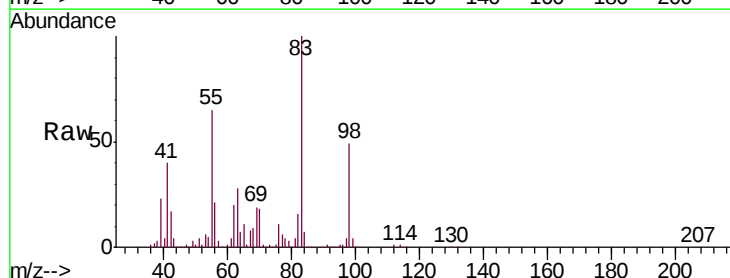
Tgt Ion: 83 Resp: 478082

Ion Ratio Lower Upper

83 100

55 67.3 53.8 80.8

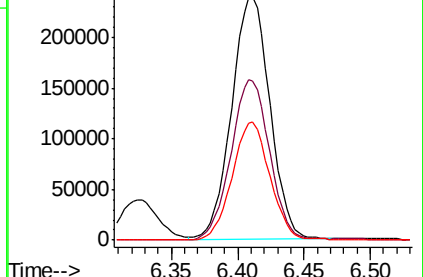
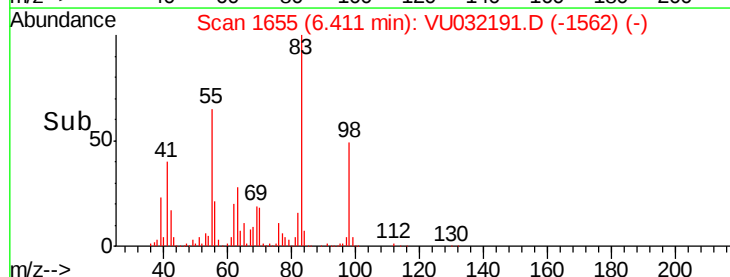
98 47.9 38.4 57.6

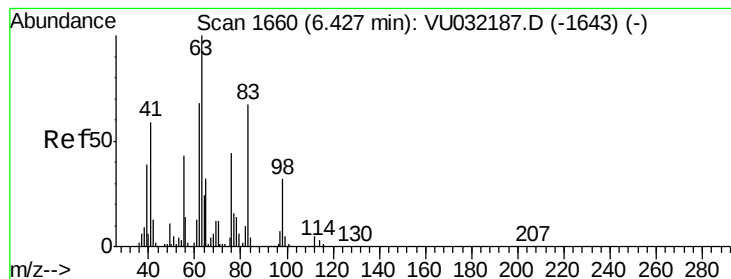


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 47.276 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

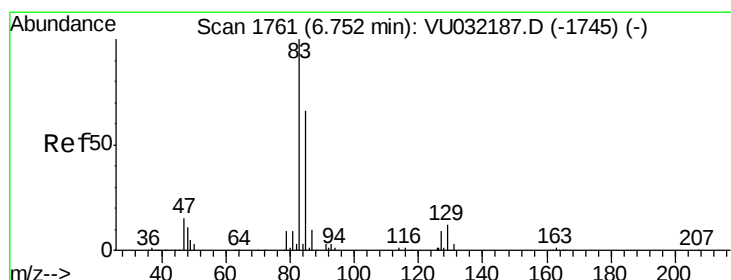
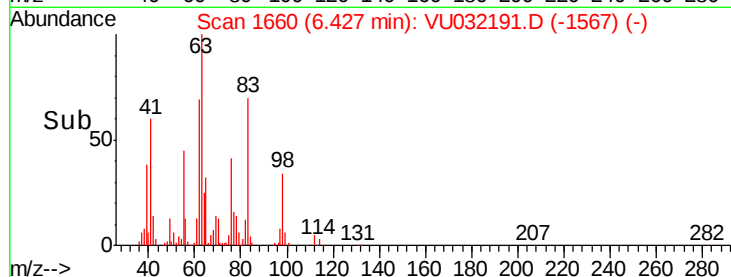
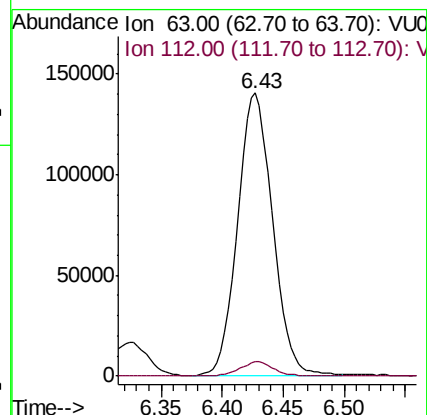
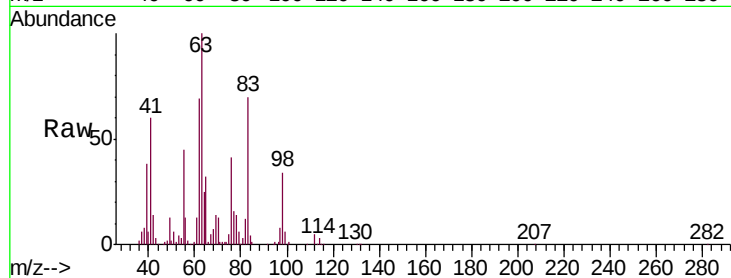
VSTD05048

Tgt Ion: 63 Resp: 277708

Ion Ratio Lower Upper

63 100

112 4.9 3.8 5.6



#38

Bromodichloromethane

Concen: 47.924 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

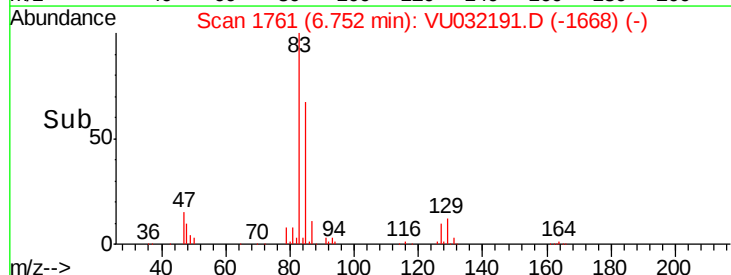
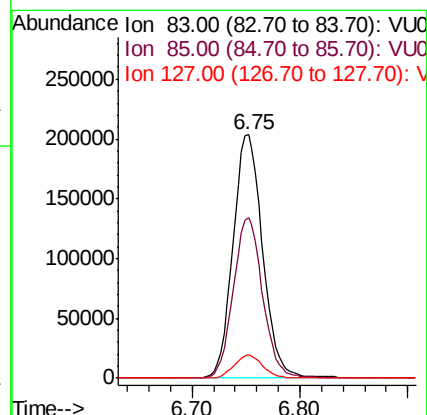
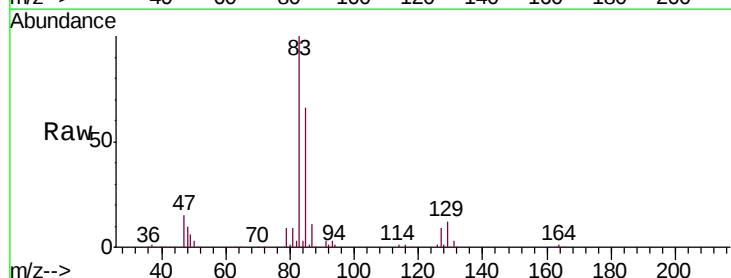
Tgt Ion: 83 Resp: 388547

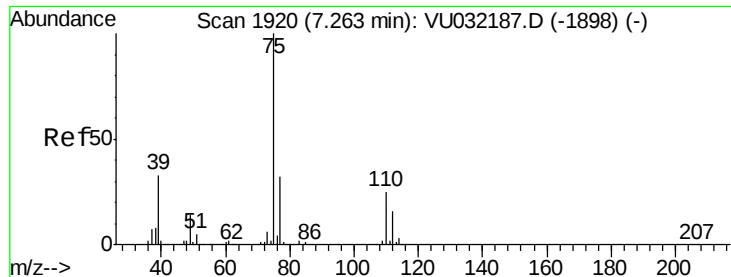
Ion Ratio Lower Upper

83 100

85 66.2 46.0 85.4

127 9.4 7.5 11.3

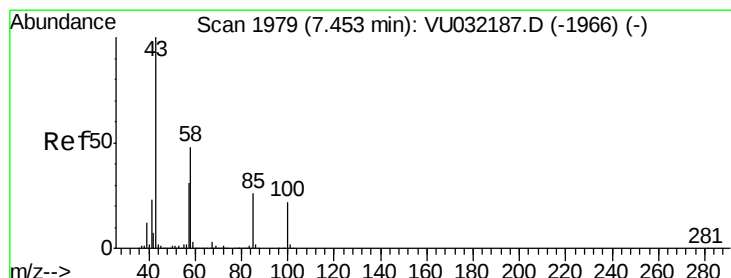
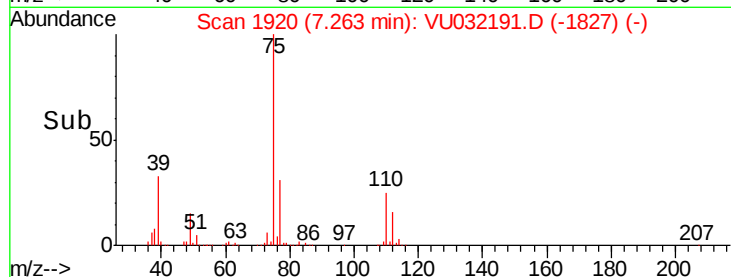
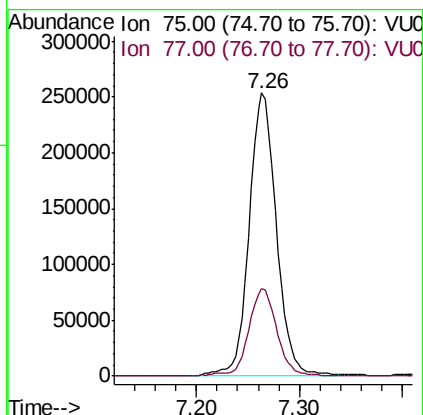
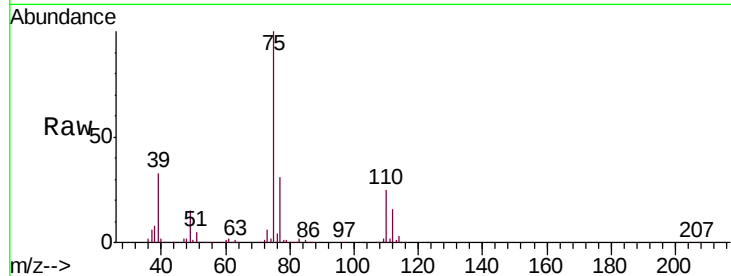




#39
 cis-1,3-Dichloropropene
 Concen: 50.525 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

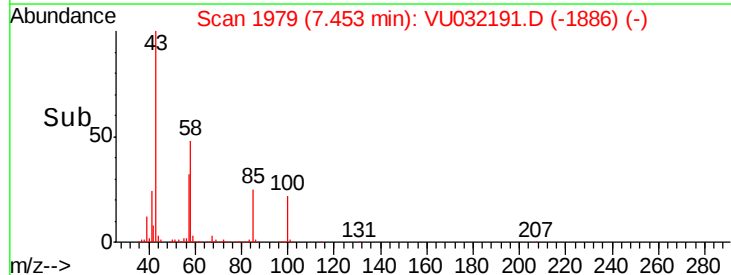
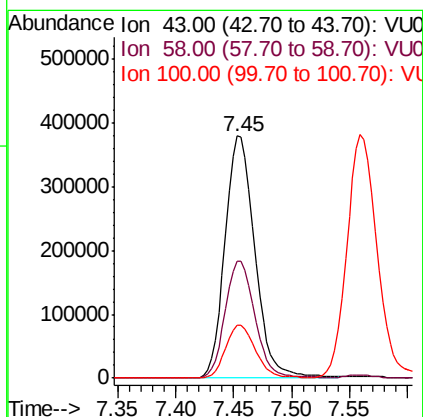
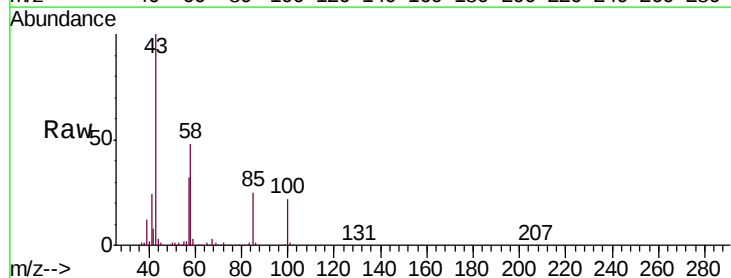
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

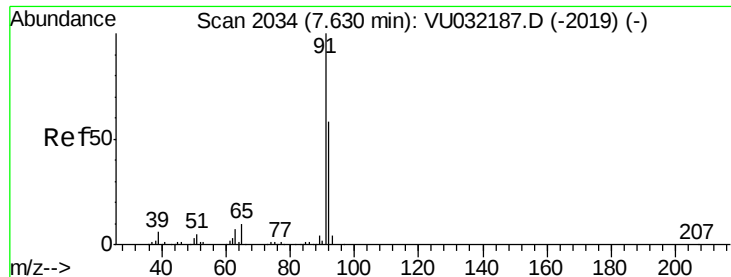
Tgt Ion: 75 Resp: 465847
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 100.981 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

Tgt Ion: 43 Resp: 678148
 Ion Ratio Lower Upper
 43 100
 58 48.4 38.6 58.0
 100 22.0 17.9 26.9





#42

Toluene

Concen: 49.725 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

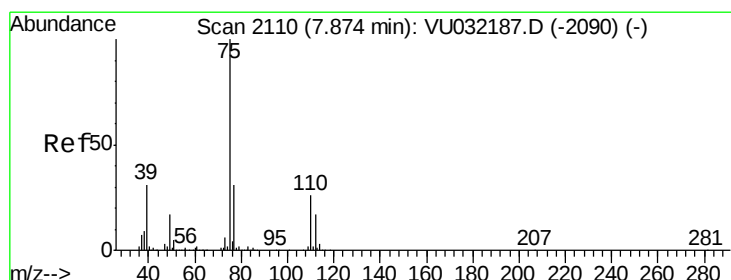
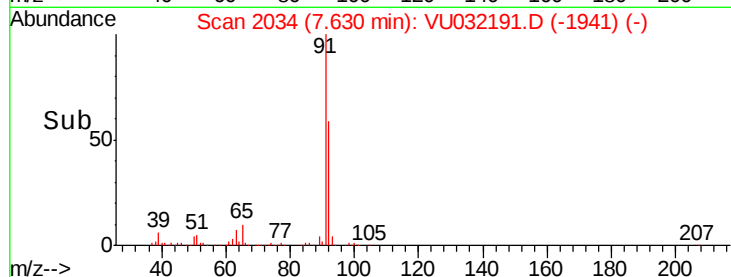
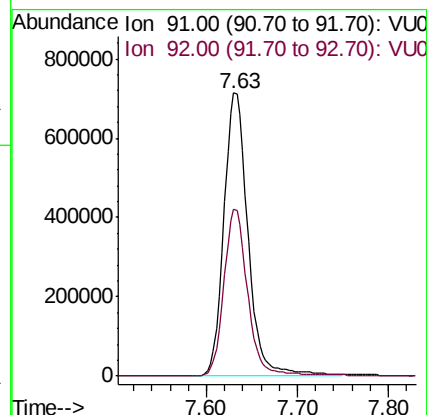
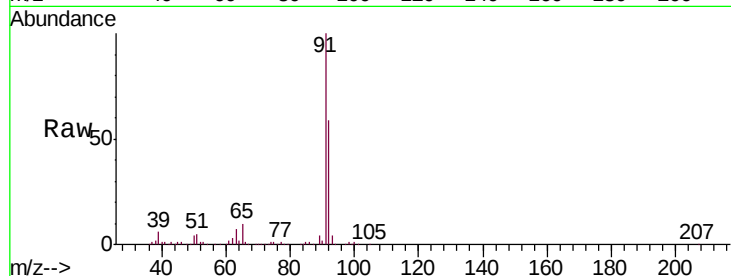
VSTD05048

Tgt Ion: 91 Resp: 1321657

Ion Ratio Lower Upper

91 100

92 59.1 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 48.936 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032191.D

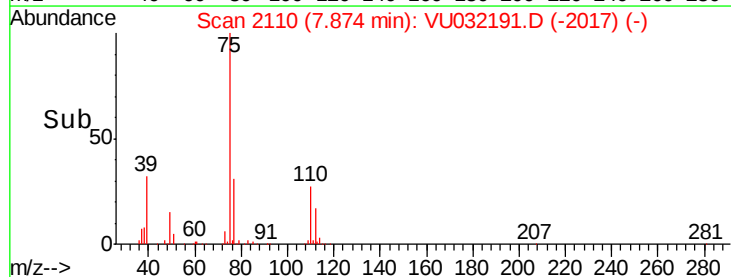
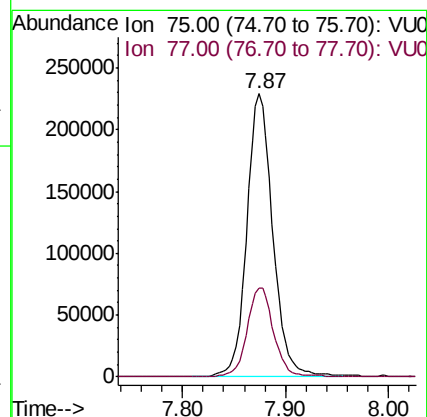
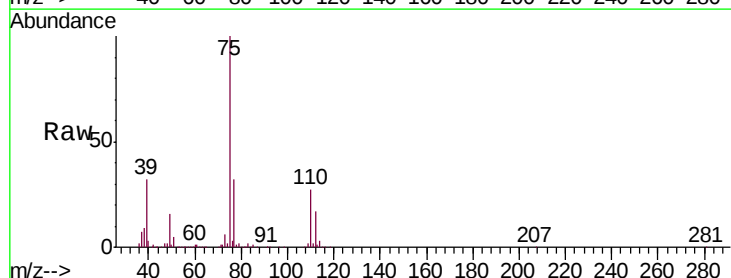
Acq: 21 May 2019 11:42

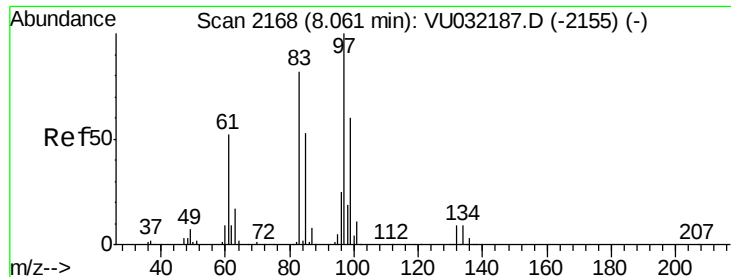
Tgt Ion: 75 Resp: 401139

Ion Ratio Lower Upper

75 100

77 31.6 21.8 40.4

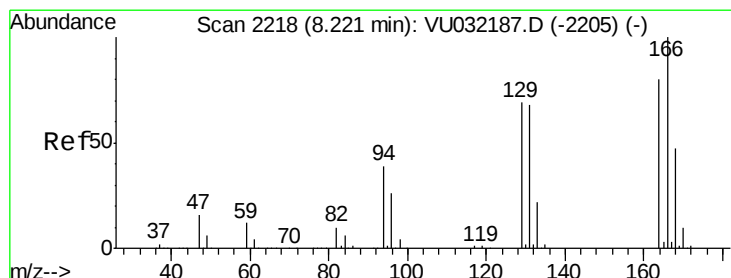
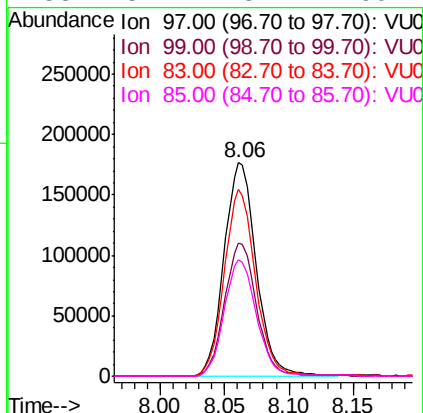
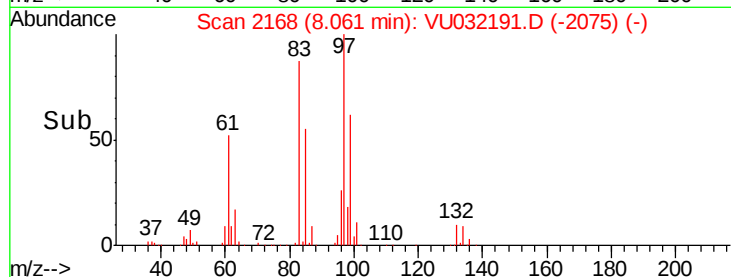
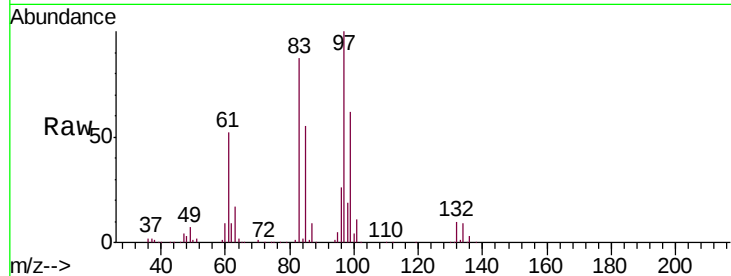




#45
 1,1,2-Trichloroethane
 Concen: 48.098 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

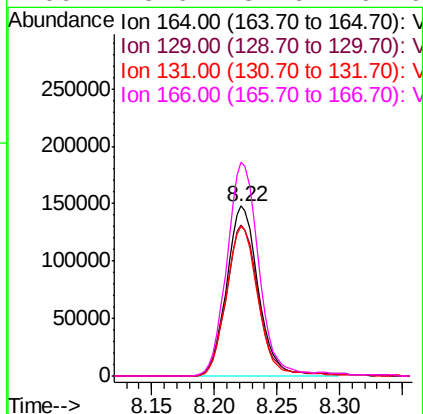
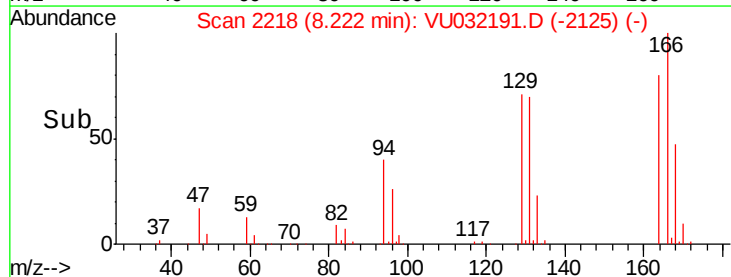
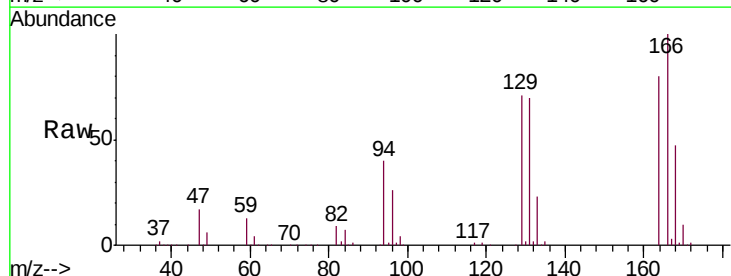
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

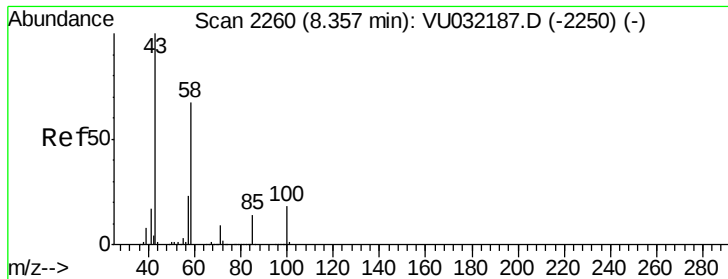
Tgt Ion:	97	Resp:	306176
Ion	Ratio	Lower	Upper
97	100		
99	62.1	41.8	77.6
83	87.3	57.3	106.3
85	54.7	37.2	69.2



#46
 Tetrachloroethene
 Concen: 49.079 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

Tgt Ion:	164	Resp:	260792
Ion	Ratio	Lower	Upper
164	100		
129	89.2	60.8	113.0
131	88.0	59.7	110.9
166	125.6	87.6	162.6

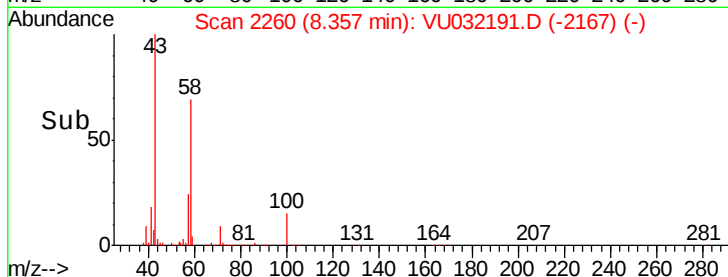
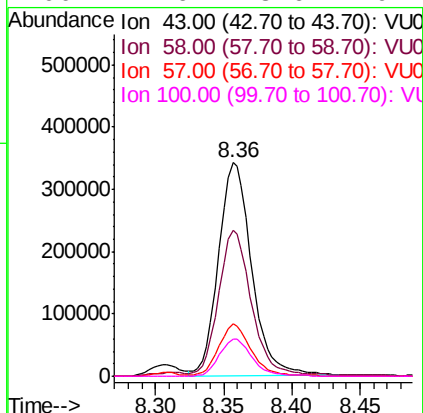
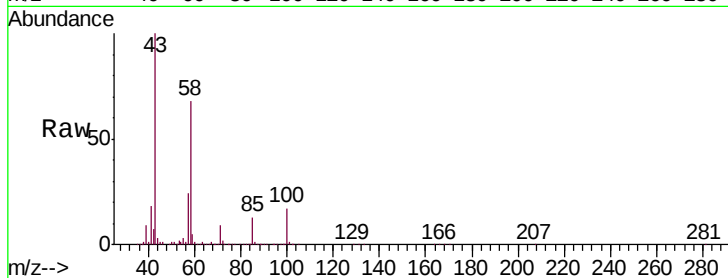




#48
2-Hexanone
Concen: 100.127 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032191.D
Acq: 21 May 2019 11:42

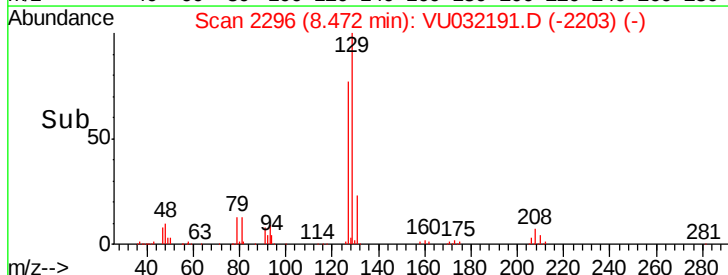
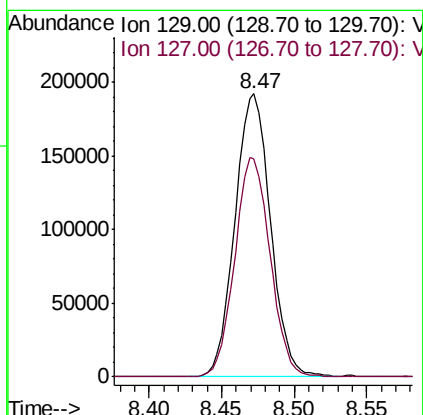
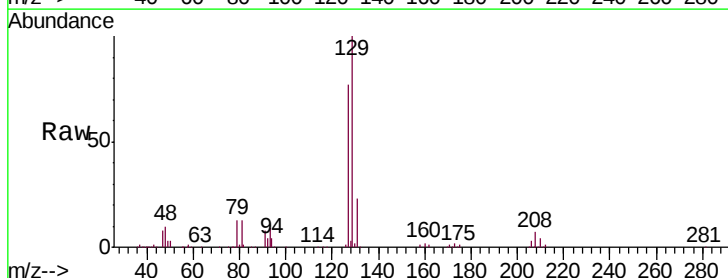
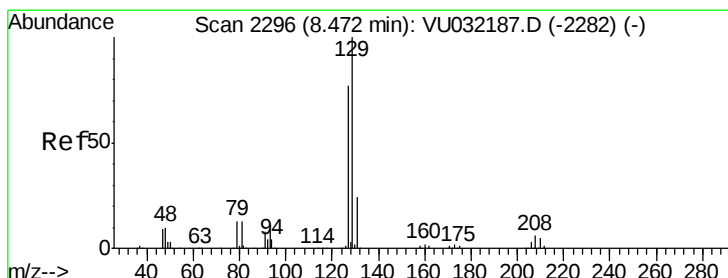
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

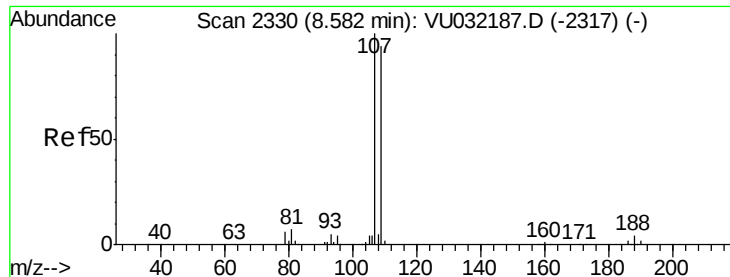
Tgt Ion:	43	Resp:	576021
Ion	Ratio	Lower	Upper
43	100		
58	67.7	54.1	81.1
57	24.5	19.4	29.0
100	17.6	13.6	20.4



#49
Dibromochloromethane
Concen: 48.101 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032191.D
Acq: 21 May 2019 11:42

Tgt Ion:	129	Resp:	328413
Ion	Ratio	Lower	Upper
129	100		
127	76.9	53.6	99.6

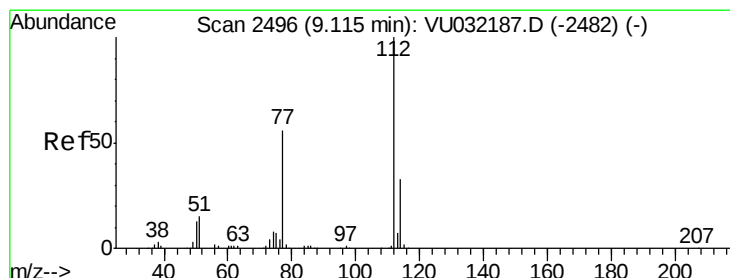
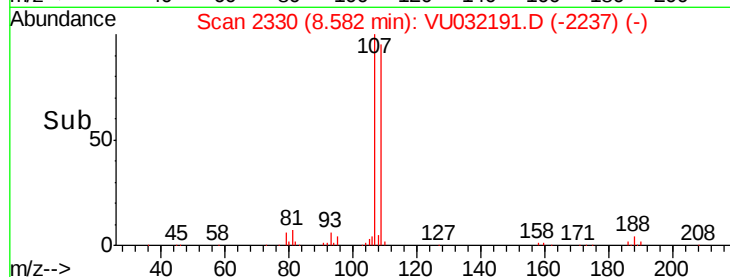
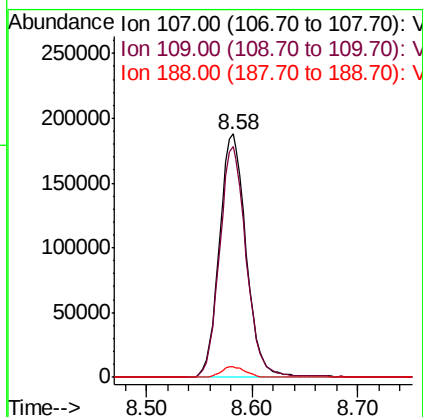
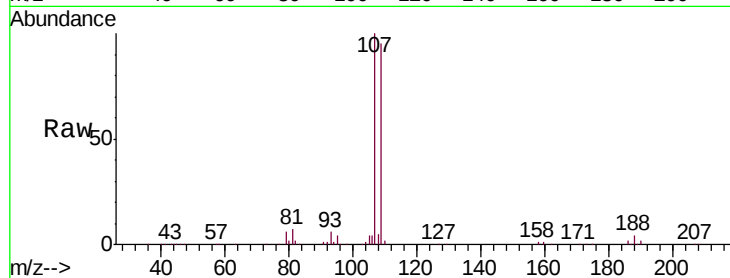




#50
 1,2-Dibromoethane
 Concen: 49.197 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

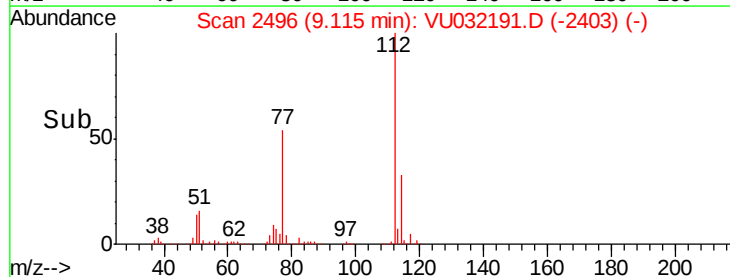
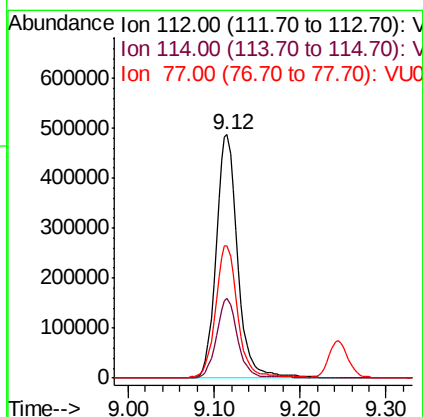
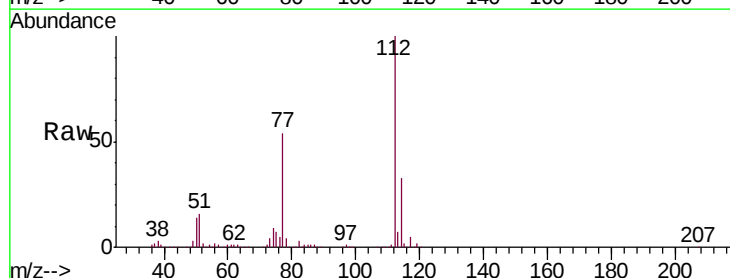
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

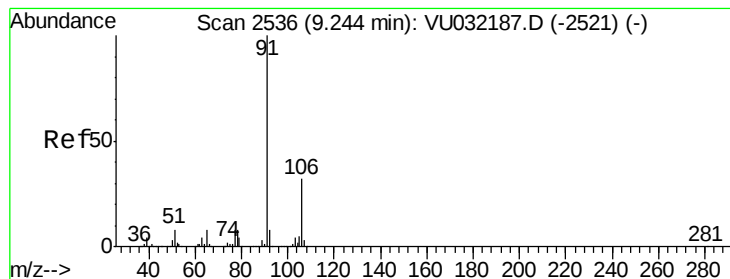
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.0	65.7	122.1
188	4.4	3.1	4.7



#51
 Chlorobenzene
 Concen: 47.342 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	23.1	42.9
77	54.4	44.9	67.3





#52

Ethylbenzene

Concen: 49.832 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

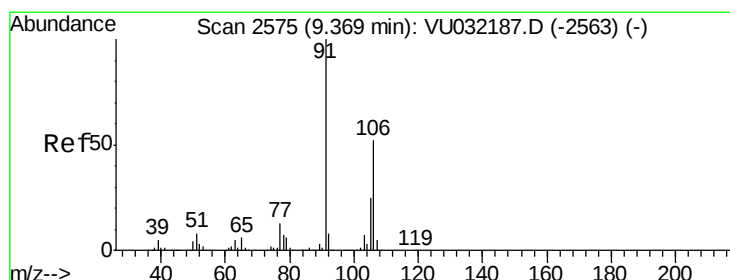
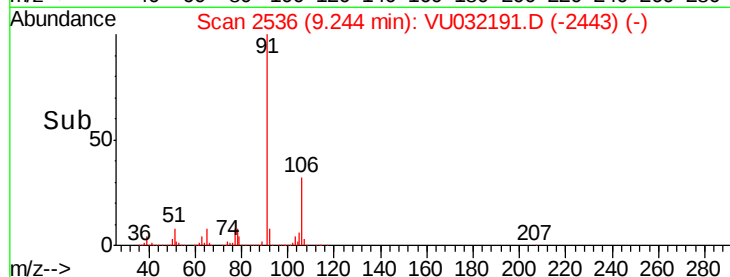
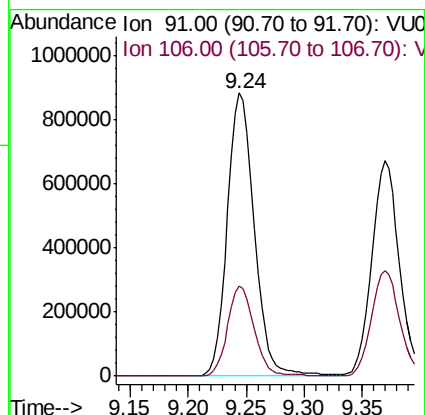
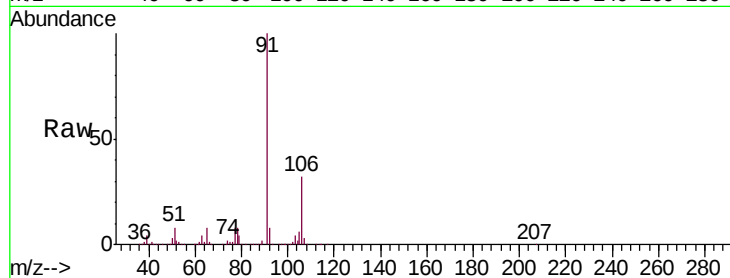
VSTD05048

Tgt Ion: 91 Resp: 1427949

Ion Ratio Lower Upper

91 100

106 31.9 22.5 41.9



#53

m,p-Xylene

Concen: 50.278 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032191.D

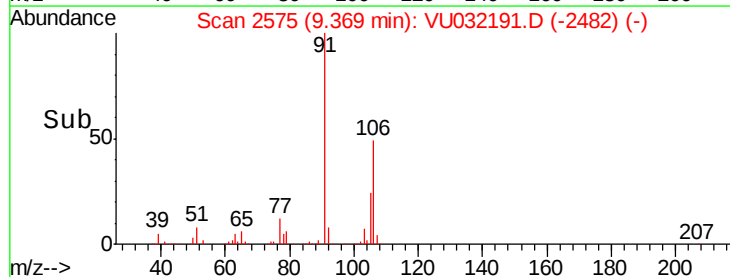
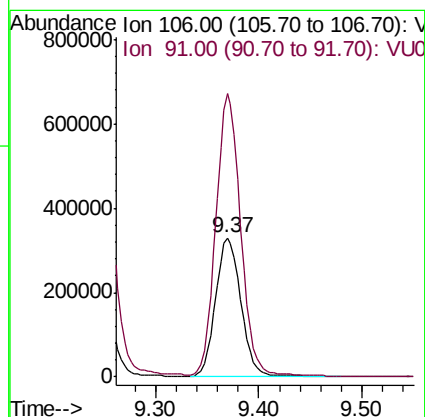
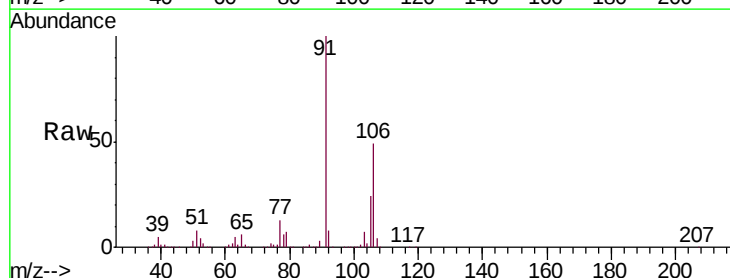
Acq: 21 May 2019 11:42

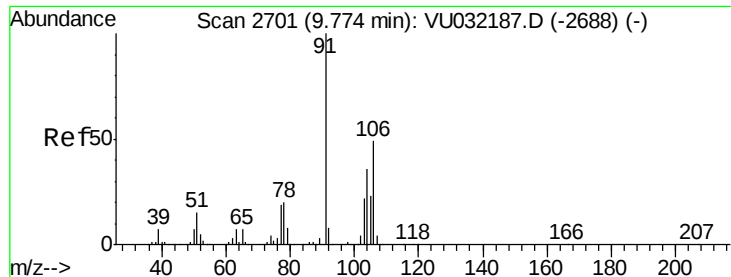
Tgt Ion: 106 Resp: 567452

Ion Ratio Lower Upper

106 100

91 203.5 136.2 252.9





#54

o-xylene

Concen: 49.865 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

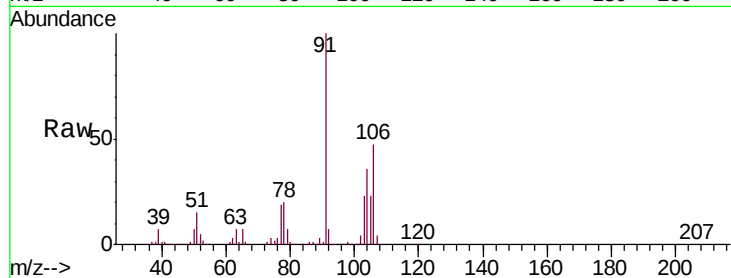
VSTD05048

Tgt Ion:106 Resp: 555365

Ion Ratio Lower Upper

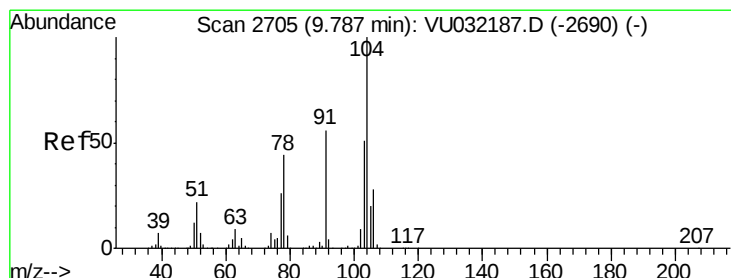
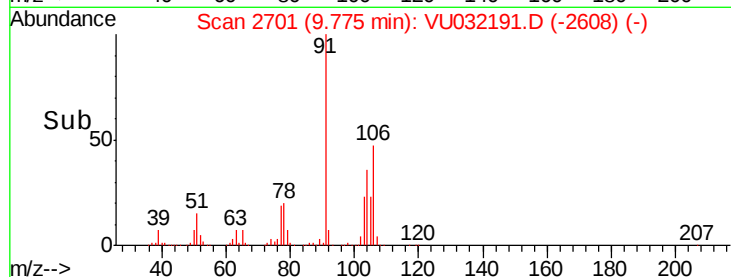
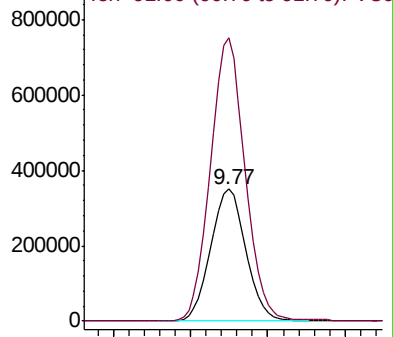
106 100

91 214.1 143.1 265.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.272 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032191.D

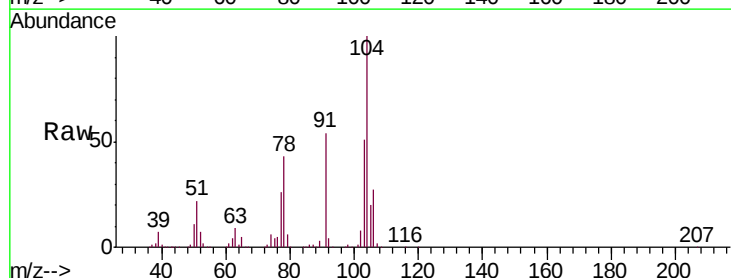
Acq: 21 May 2019 11:42

Tgt Ion:104 Resp: 974948

Ion Ratio Lower Upper

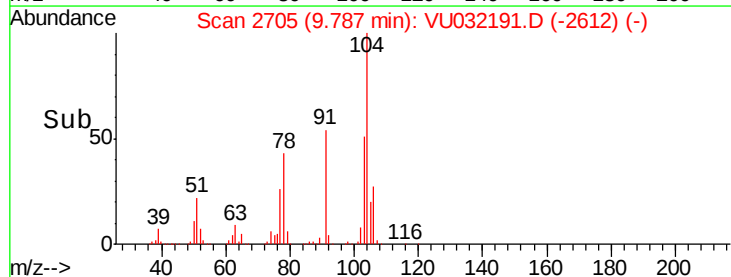
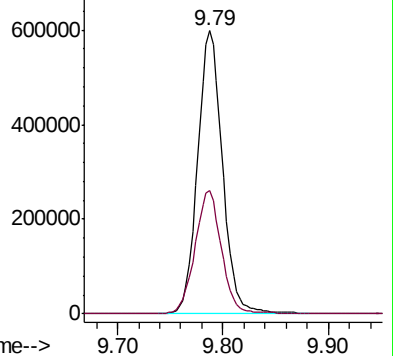
104 100

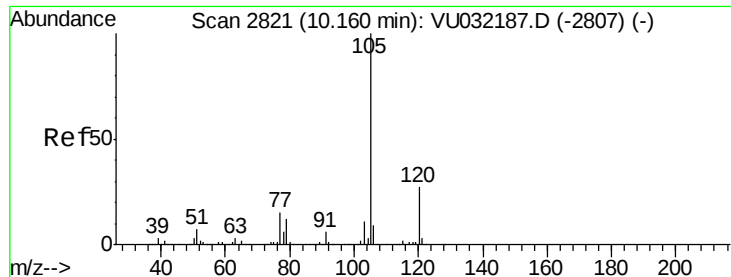
78 43.5 31.0 57.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.949 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

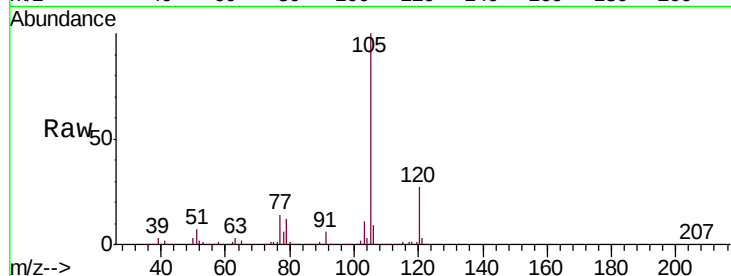
Tgt Ion:105 Resp: 1429004

Ion Ratio Lower Upper

105 100

120 27.1 21.3 31.9

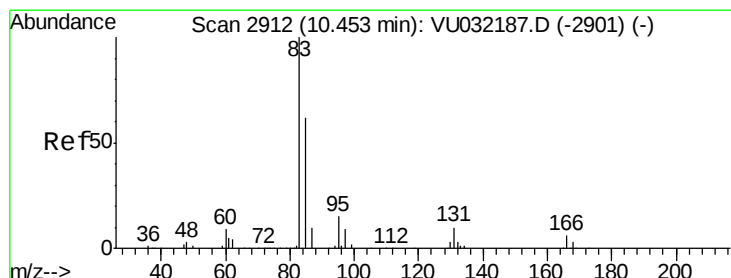
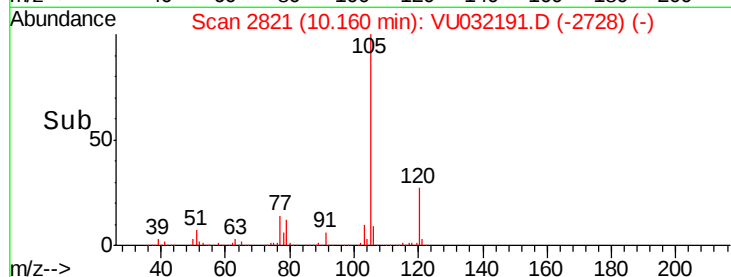
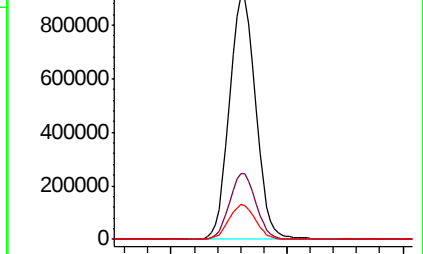
77 14.3 11.7 17.5



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: 47.375 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

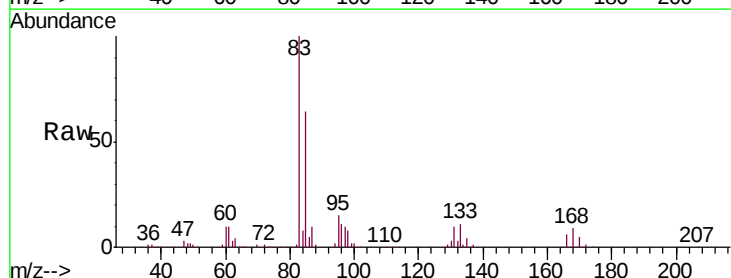
Tgt Ion: 83 Resp: 505116

Ion Ratio Lower Upper

83 100

85 64.0 44.1 81.9

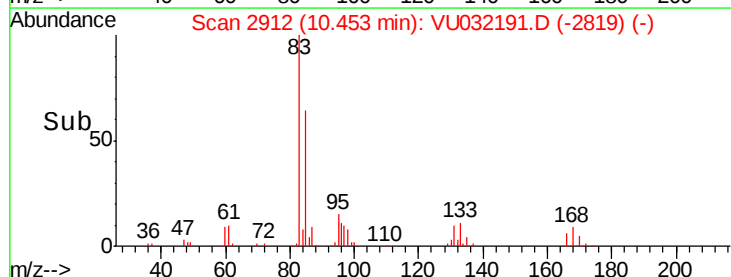
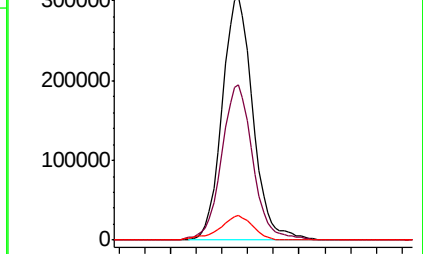
131 10.0 8.6 12.8

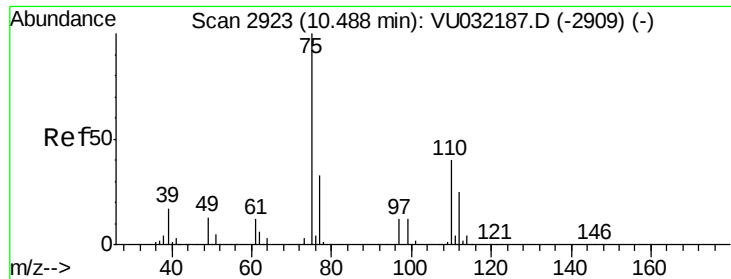


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.002 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

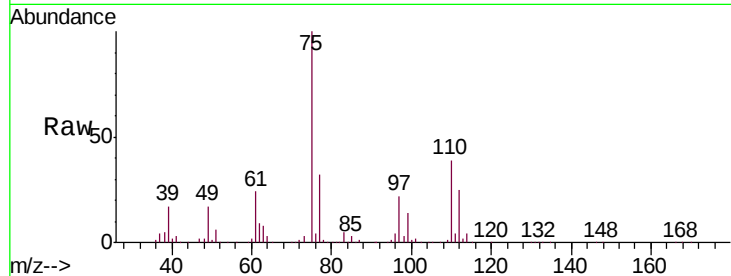
VSTD05048

Tgt Ion: 75 Resp: 390094

Ion Ratio Lower Upper

75 100

77 32.4 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU032187.D (-2909) (-)

Ion 77.00 (76.70 to 77.70): VU032187.D (-2909) (-)

10.49

250000

200000

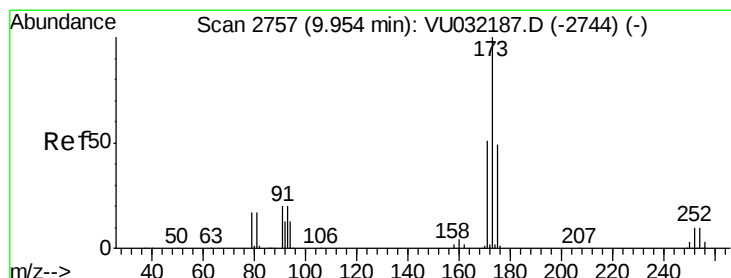
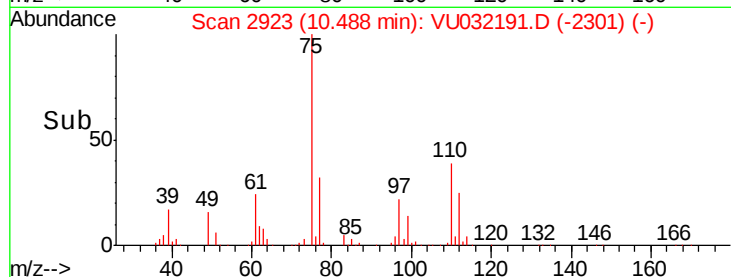
150000

100000

50000

0

Time--> 10.40 10.45 10.50 10.55



#61

Bromoform

Concen: 45.671 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

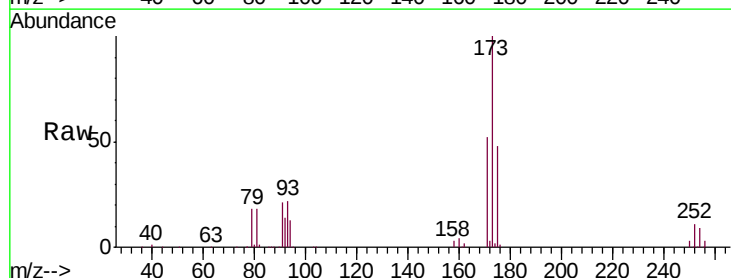
Tgt Ion: 173 Resp: 252777

Ion Ratio Lower Upper

173 100

175 48.7 38.6 57.8

254 9.5 7.8 11.6



Abundance Ion 173.00 (172.70 to 173.70): VU032187.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU032187.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU032187.D (-2744) (-)

9.95

200000

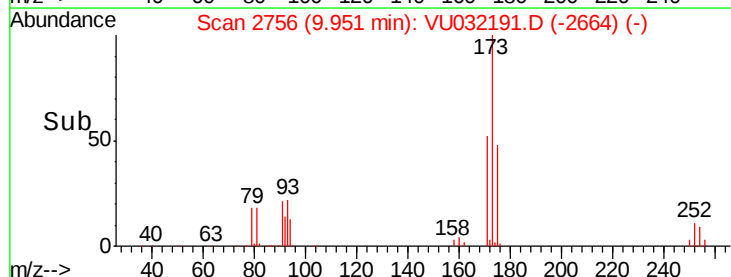
150000

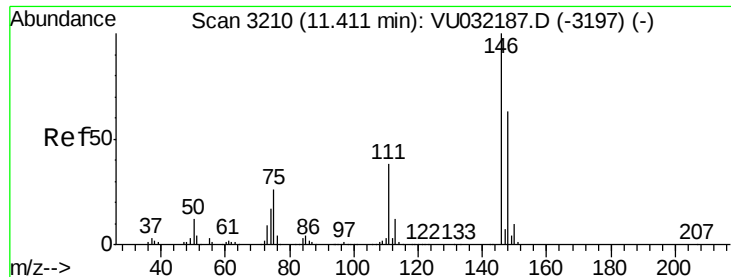
100000

50000

0

Time--> 9.90 9.95 10.00 10.05





#62

1,3-Dichlorobenzene

Concen: 47.594 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

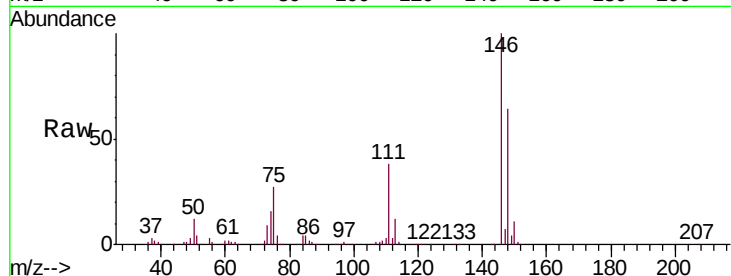
Tgt Ion:146 Resp: 675653

Ion Ratio Lower Upper

146 100

111 38.0 26.5 49.3

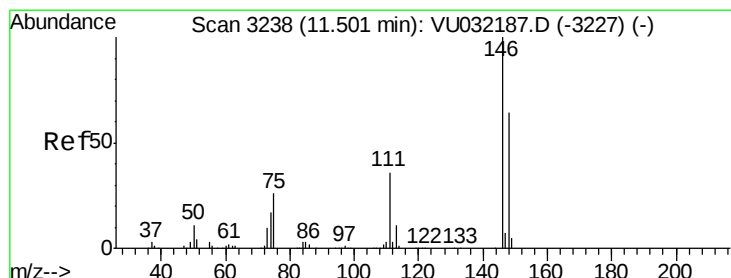
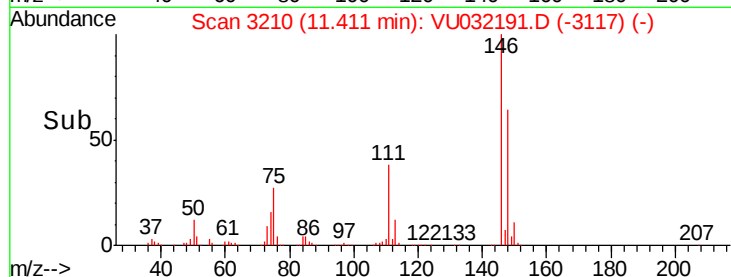
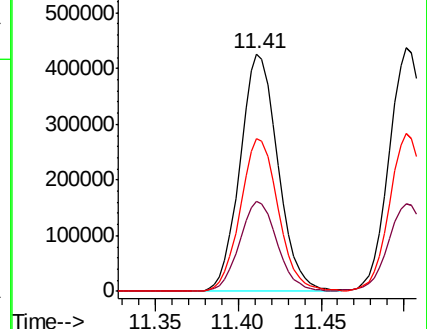
148 64.3 44.2 82.2



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



#63

1,4-Dichlorobenzene

Concen: 46.225 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

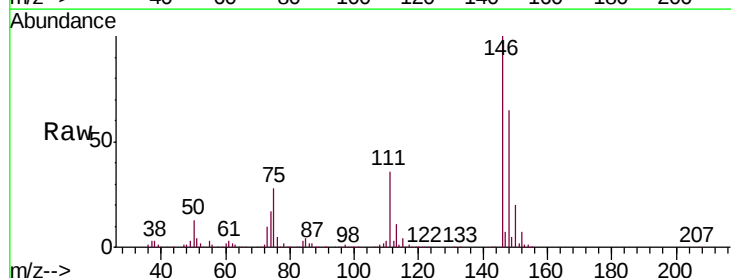
Tgt Ion:146 Resp: 689763

Ion Ratio Lower Upper

146 100

111 36.0 25.8 47.8

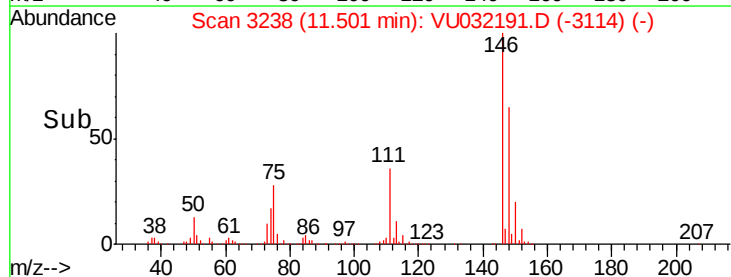
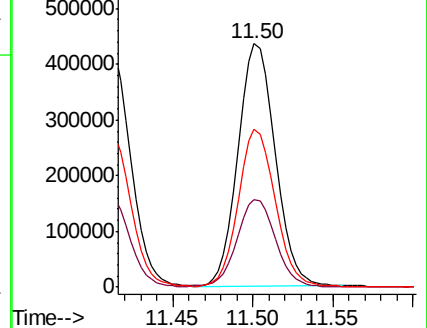
148 65.0 44.9 83.5

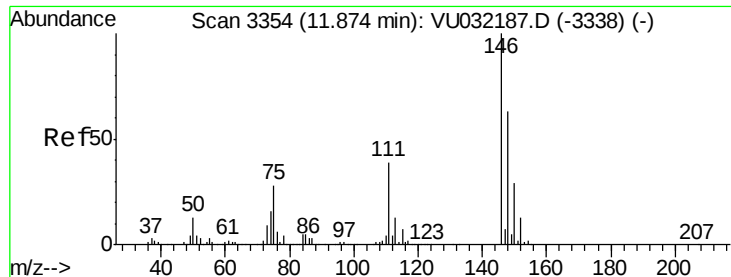


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

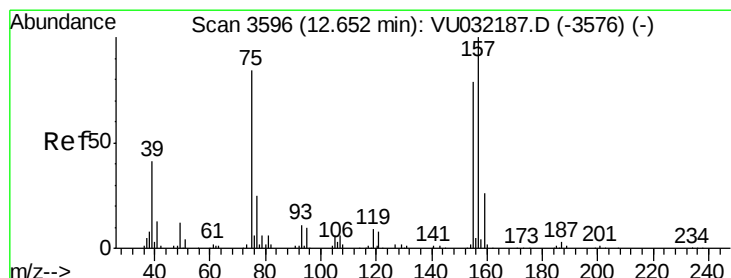
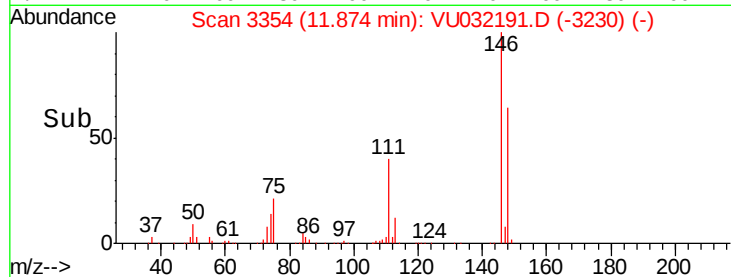
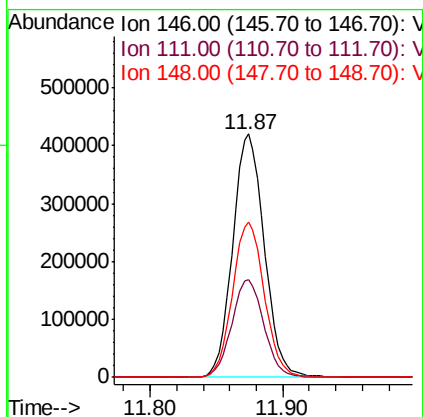
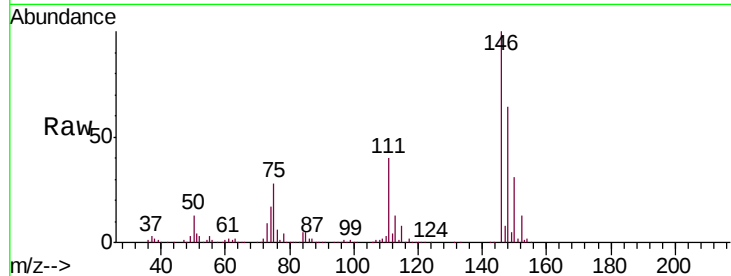




#65
 1,2-Dichlorobenzene
 Concen: 46.694 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

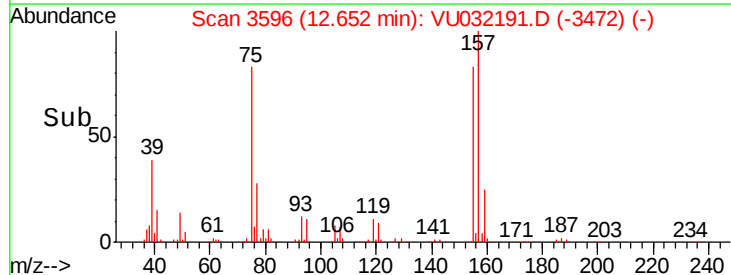
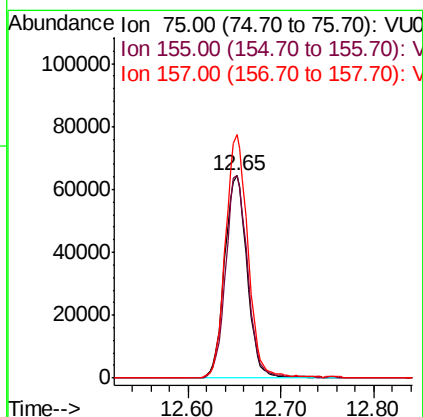
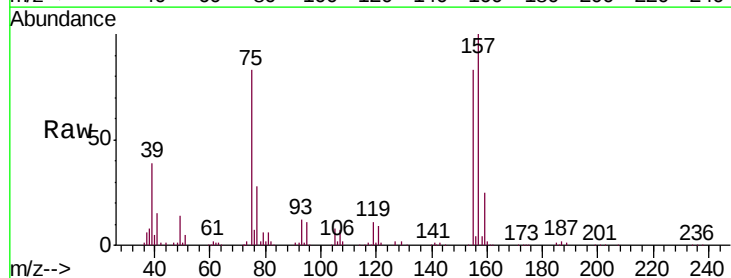
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05048

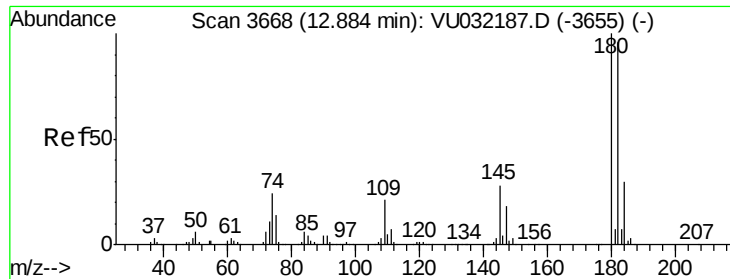
Tgt Ion: 146 Resp: 693267
 Ion Ratio Lower Upper
 146 100
 111 40.2 31.5 47.3
 148 63.6 50.6 76.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.438 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

Tgt Ion: 75 Resp: 108871
 Ion Ratio Lower Upper
 75 100
 155 100.3 74.6 112.0
 157 120.3 94.8 142.2

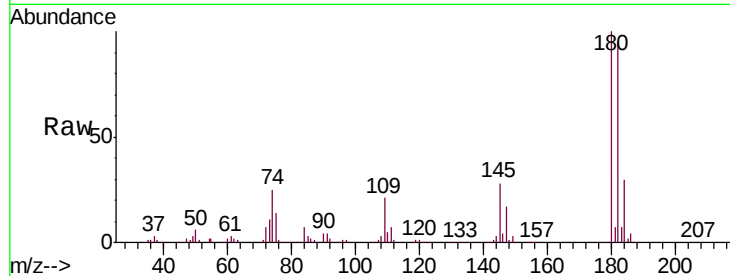




#67
 1,3,5-Trichlorobenzene
 Concen: 48.695 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.5	114.7
184	29.8	24.9	37.3
145	28.0	22.5	33.7



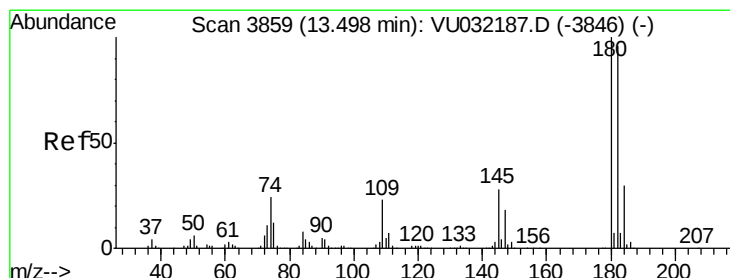
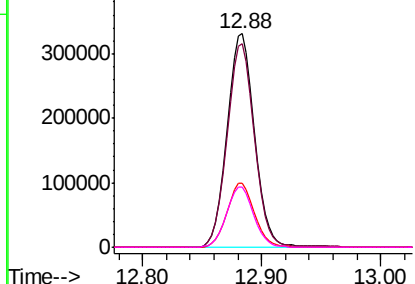
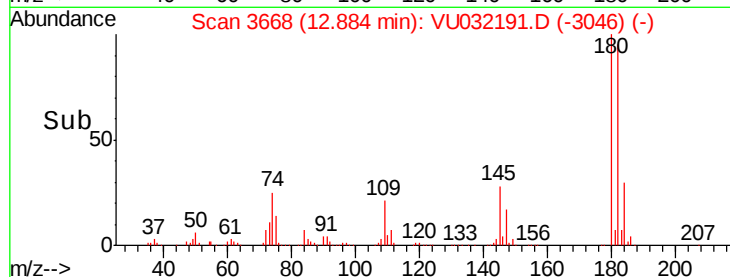
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

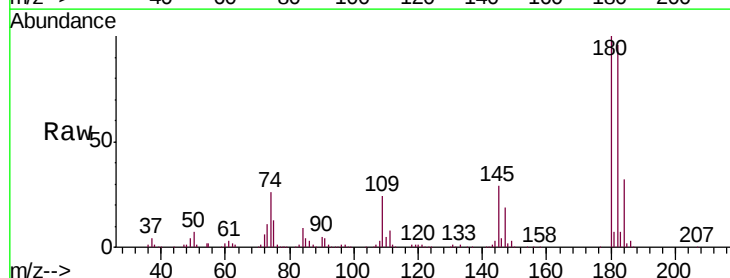
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.631 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032191.D
 Acq: 21 May 2019 11:42

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.8	115.2
145	28.3	23.0	34.6

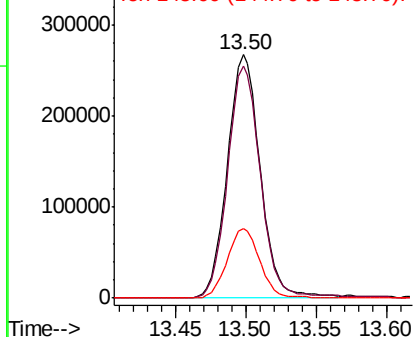
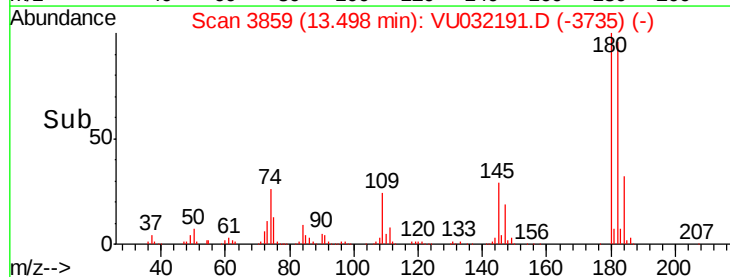


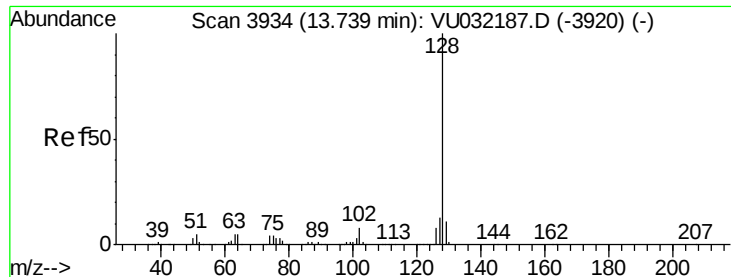
Abundance

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: 54.668 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

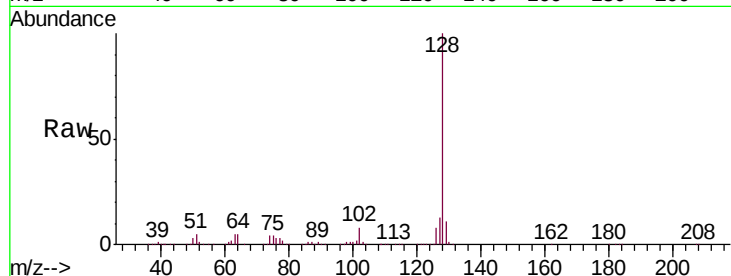
Tgt Ion:128 Resp: 1404150

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

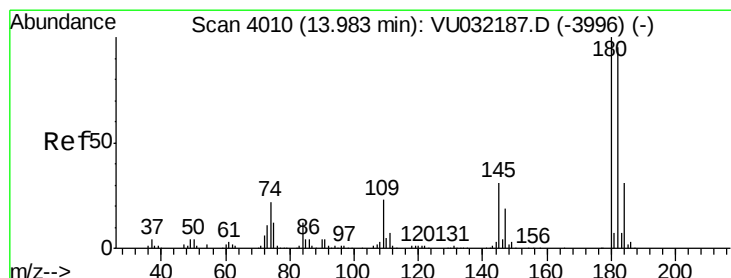
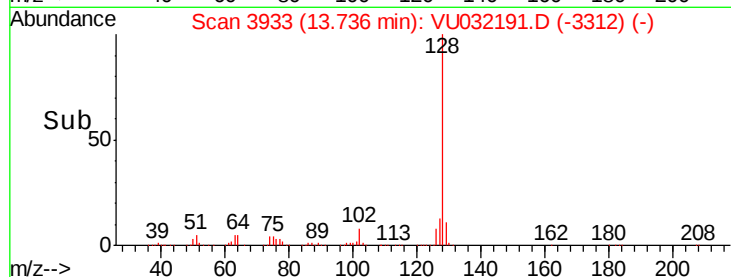
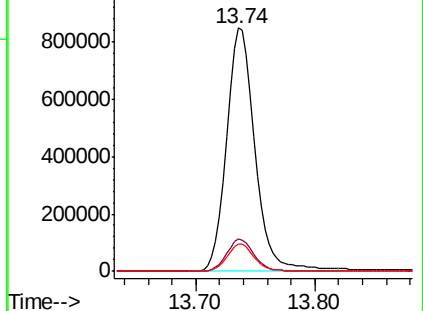
129 10.8 8.6 12.8



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: 49.729 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032191.D

Acq: 21 May 2019 11:42

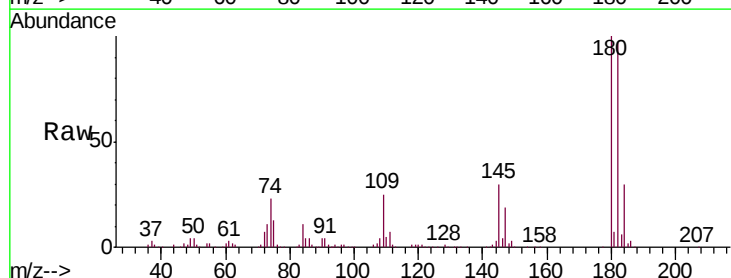
Tgt Ion:180 Resp: 472981

Ion Ratio Lower Upper

180 100

182 96.3 74.6 112.0

145 29.6 23.8 35.8



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

