

Data File : VU036013.D
Acq On : 06 Dec 2019 09:47
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

Quant Time: Dec 06 22:28:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 06 13:10:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	285309	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	294439	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	148976	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	145323	4.47	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.40%
7) Chloroethane-d5	1.93	69	118940	4.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.20%
11) 1,1-Dichloroethene-d2	2.59	63	220456	4.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.40%
20) 2-Butanone-d5	4.69	46	239207	41.53	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.06%
24) Chloroform-d	5.11	84	226276	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.74	65	116009	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
32) Benzene-d6	5.77	84	454662	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.20%
36) 1,2-Dichloropropane-d6	6.73	67	132253	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.80%
41) Toluene-d8	7.93	98	419566	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.60%
43) trans-1,3-Dichloropropene-	8.21	79	55386	4.86	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.20%
46) 2-Hexanone-d5	8.67	63	207665	46.30	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.60%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	112955	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	151638	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	152228	5.152 ug/L	99
3) Chloromethane	1.54	50	152073	4.507 ug/L	99
5) Vinyl chloride	1.62	62	165574	4.858 ug/L	97
6) Bromomethane	1.87	94	80979	4.144 ug/L	100
8) Chloroethane	1.95	64	97020	4.591 ug/L	99
9) Trichlorofluoromethane	2.16	101	213895	5.345 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	119575	5.453 ug/L	93
12) 1,1-Dichloroethene	2.61	96	110362	5.397 ug/L	87
13) Acetone	2.67	43	188832	36.265 ug/L	99
14) Carbon disulfide	2.82	76	362271	5.058 ug/L	99
15) Methyl Acetate	2.99	43	43076	4.616 ug/L	99
16) Methylene chloride	3.08	84	128808	4.067 ug/L	93
17) Methyl tert-butyl Ether	3.41	73	235244	4.911 ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	112950	5.217 ug/L	96
19) 1,1-Dichloroethane	3.92	63	216049	5.105 ug/L	100
21) 2-Butanone	4.76	43	282485	42.261 ug/L	92
22) cis-1,2-Dichloroethene	4.72	96	124075	5.424 ug/L	91

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ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

Quant Time: Dec 06 22:28:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 06 13:10:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	60466	5.775	ug/L #	86
25) Chloroform	5.13	83	226282	5.299	ug/L	99
27) 1,2-Dichloroethane	5.84	62	138190	5.063	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	190740	5.356	ug/L	98
30) Cyclohexane	5.43	56	163826	4.658	ug/L	96
31) Carbon tetrachloride	5.56	117	172169	5.453	ug/L	100
33) Benzene	5.82	78	493558	5.330	ug/L	100
34) Trichloroethene	6.58	95	122337	5.225	ug/L	96
35) Methylcyclohexane	6.80	83	175787	5.007	ug/L	95
37) 1,2-Dichloropropane	6.83	63	122145	4.872	ug/L	100
38) Bromodichloromethane	7.14	83	158468	5.281	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	165366	4.971	ug/L	100
40) 4-Methyl-2-pentanone	7.83	43	633846	43.014	ug/L	96
42) Toluene	8.00	91	526935	5.448	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	139781	4.915	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	91700	5.373	ug/L	97
47) Tetrachloroethene	8.58	164	108594	5.706	ug/L	97
48) 2-Hexanone	8.73	43	496979	45.659	ug/L	98
49) Dibromochloromethane	8.84	129	116269	5.586	ug/L	95
50) 1,2-Dibromoethane	8.96	107	87458	5.281	ug/L	93
51) Chlorobenzene	9.47	112	332721	5.509	ug/L	97
52) Ethylbenzene	9.60	91	514647	5.264	ug/L	99
53) m,p-Xylene	9.72	106	203884	5.524	ug/L	99
54) o-Xylene	10.13	106	191875	5.540	ug/L	95
55) Styrene	10.14	104	336227	5.773	ug/L	99
56) Isopropylbenzene	10.51	105	495051	5.453	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	115316	5.034	ug/L #	97
59) 1,2,3-Trichloropropane	10.85	75	82270	5.048	ug/L	95
61) Bromoform	10.32	173	68465	4.976	ug/L	97
62) 1,3-Dichlorobenzene	11.77	146	264310	5.334	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	258098	5.248	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	249686	5.273	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	14745	3.997	ug/L #	80
67) 1,3,5-Trichlorobenzene	13.24	180	175931	5.202	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	83733	4.620	ug/L	98
69) Naphthalene	14.11	128	70908	3.436	ug/L	98
70) 1,2,3-Trichlorobenzene	14.35	180	82825	4.615	ug/L	98

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

Data File : VU036013.D

Acq On : 06 Dec 2019 09:47

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Sample : VSTDCCC005

Misc : 25.0mL/MSVOA U/WATER

```
ALS Vial      : 2      Sample Multiplier: 1
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Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

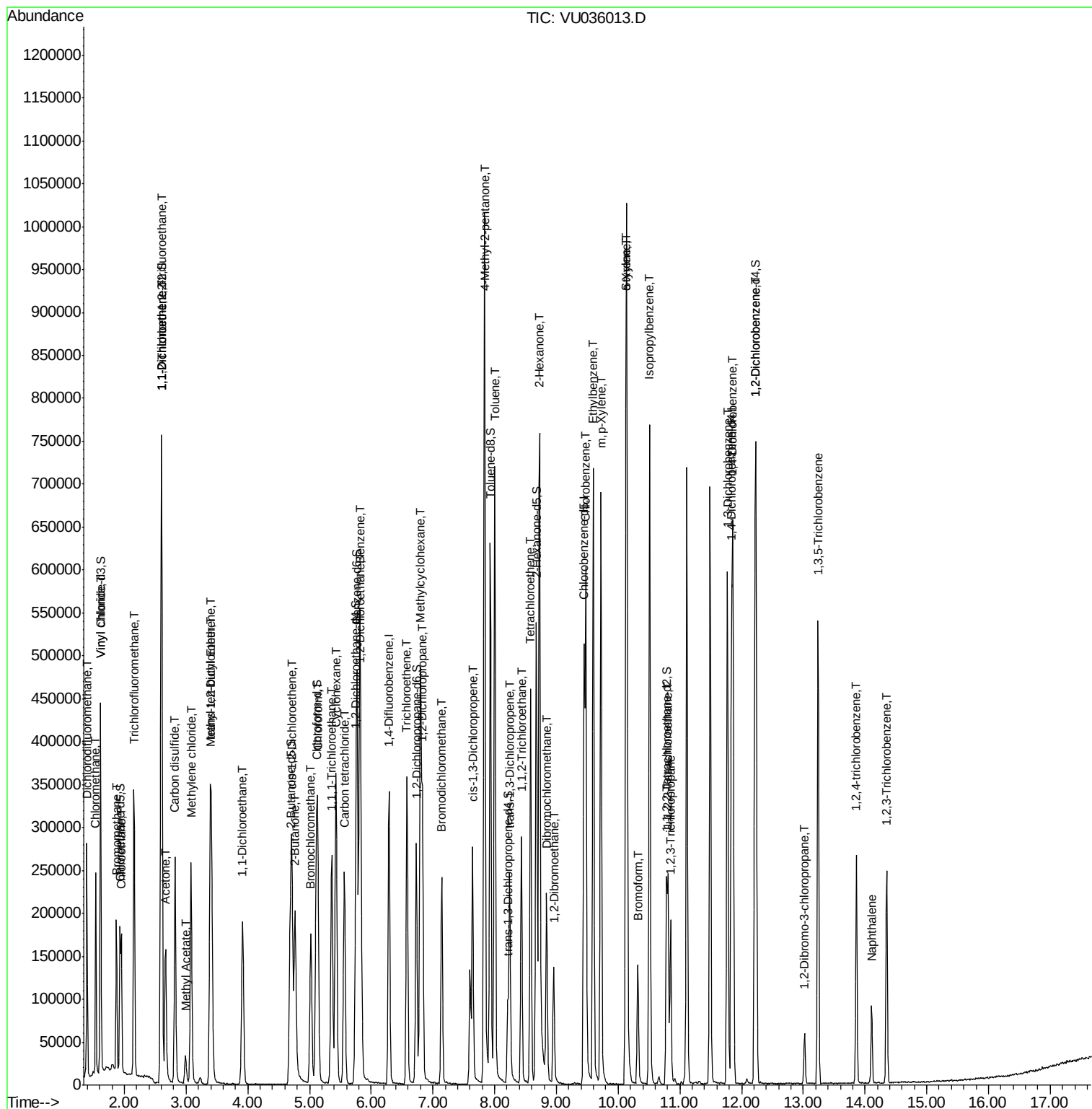
Quant Time: Dec 06 22:28:08 2019

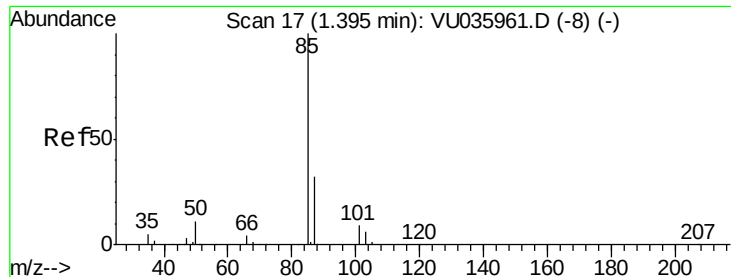
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR120319WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Dec 06 13:10:54 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.152 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

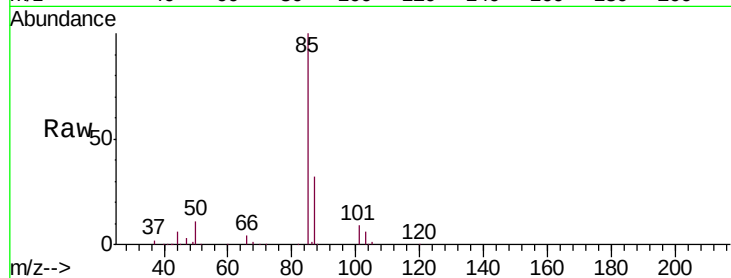
VSTD00524

Tgt Ion: 85 Resp: 152228

Ion Ratio Lower Upper

85 100

87 32.3 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU035961.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU035961.D (-8) (-)

1.39

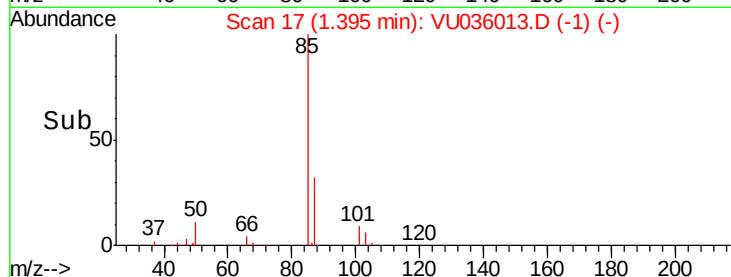
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100000

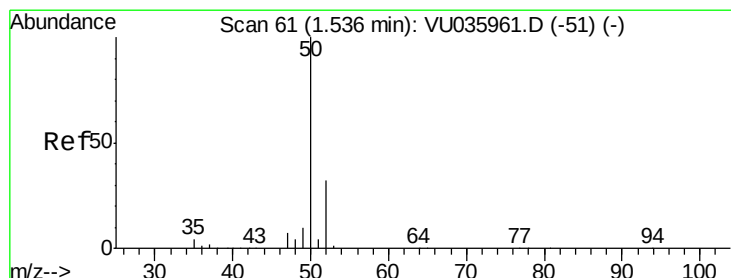
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 4.507 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036013.D

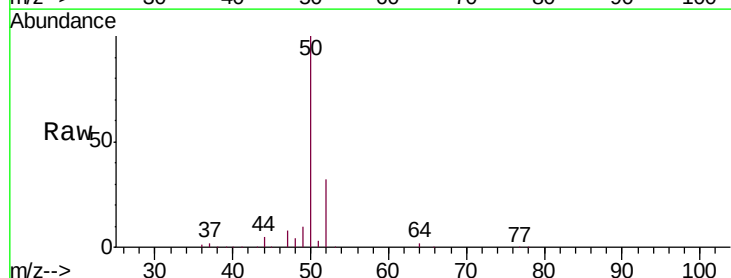
Acq: 06 Dec 2019 09:47

Tgt Ion: 50 Resp: 152073

Ion Ratio Lower Upper

50 100

52 32.2 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU035961.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU035961.D (-51) (-)

1.54

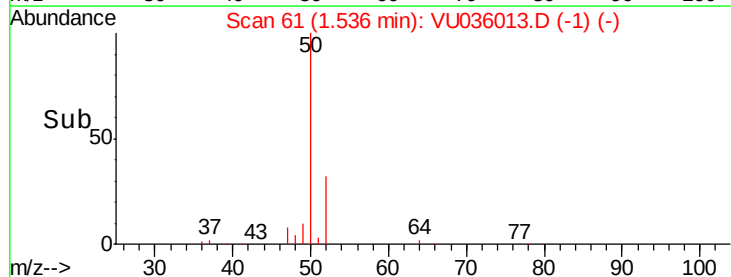
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100000

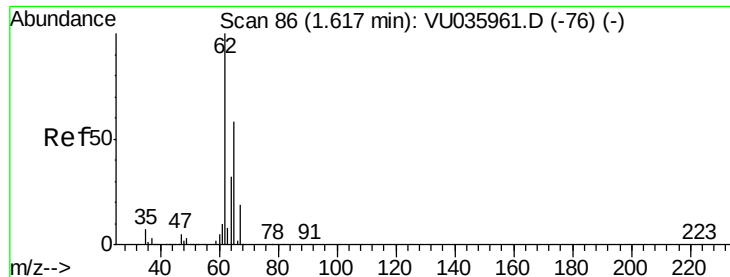
50000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 4.858 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

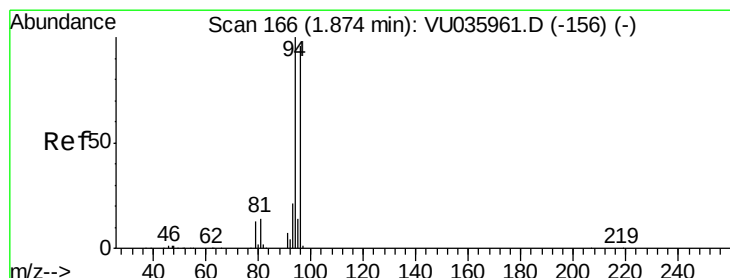
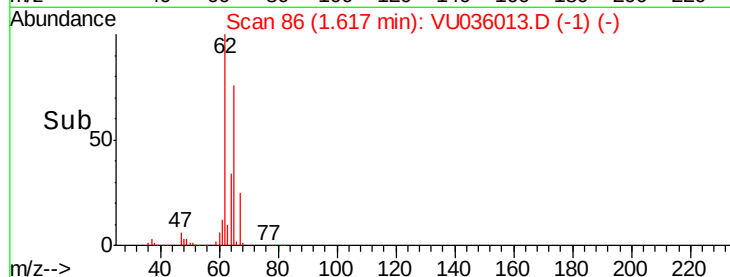
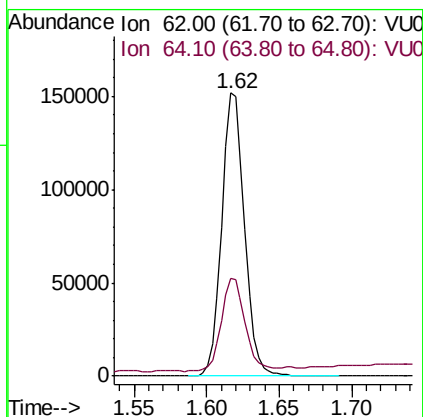
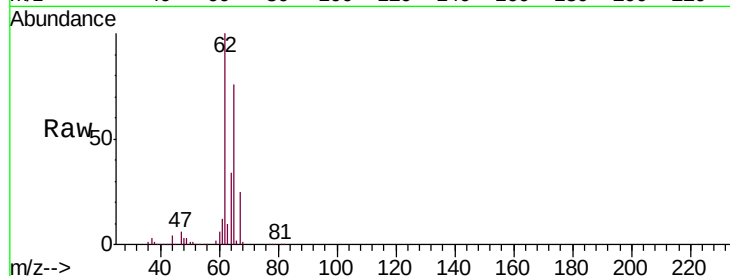
VSTD00524

Tgt Ion: 62 Resp: 165574

Ion Ratio Lower Upper

62 100

64 34.4 23.0 42.6



#6

Bromomethane

Concen: 4.144 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036013.D

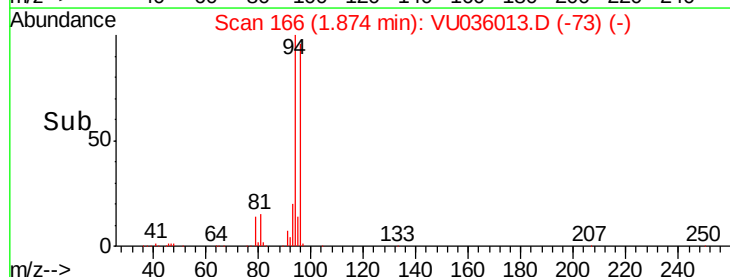
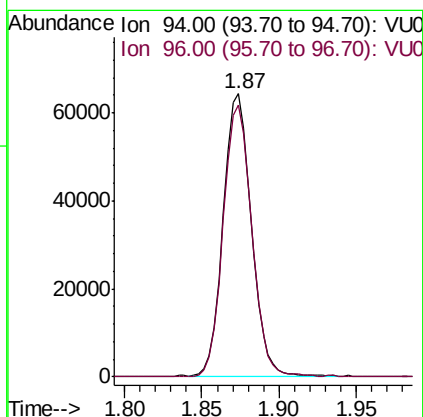
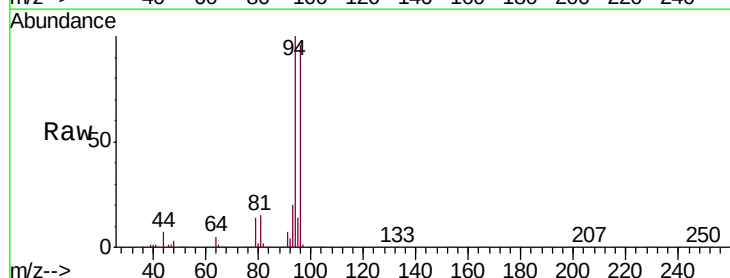
Acq: 06 Dec 2019 09:47

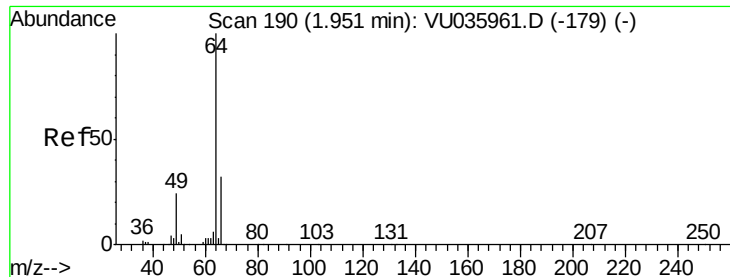
Tgt Ion: 94 Resp: 80979

Ion Ratio Lower Upper

94 100

96 96.2 67.3 124.9





#8

Chloroethane

Concen: 4.591 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

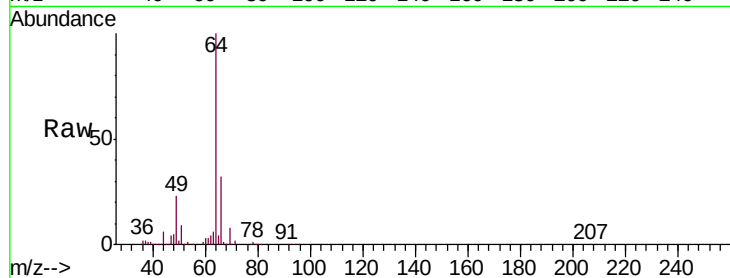
VSTD00524

Tgt Ion: 64 Resp: 97020

Ion Ratio Lower Upper

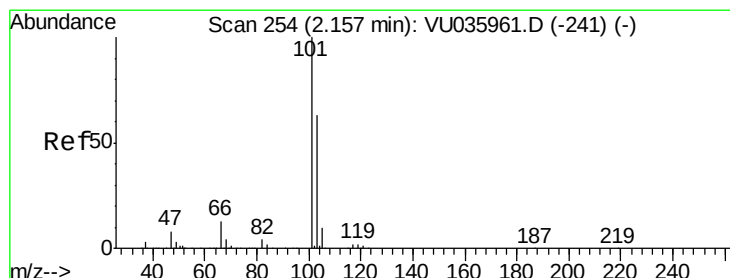
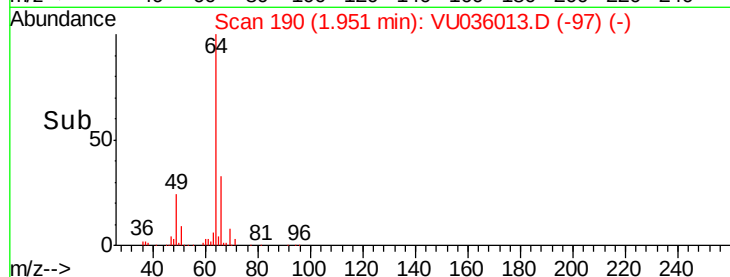
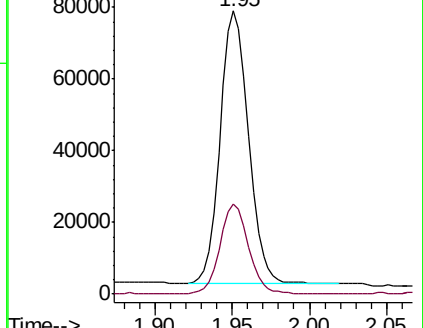
64 100

66 31.8 22.0 40.8



Abundance Ion 64.10 (63.80 to 64.80): VU035961.D (-179) (-)

Ion 66.05 (65.75 to 66.75): VU035961.D (-179) (-)



#9

Trichlorofluoromethane

Concen: 5.345 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU036013.D

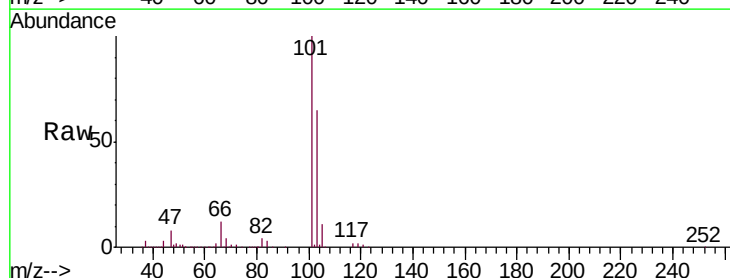
Acq: 06 Dec 2019 09:47

Tgt Ion: 101 Resp: 213895

Ion Ratio Lower Upper

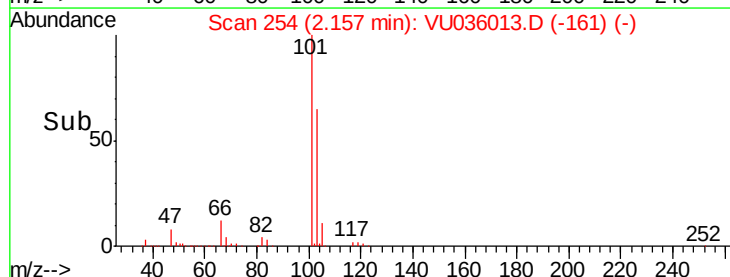
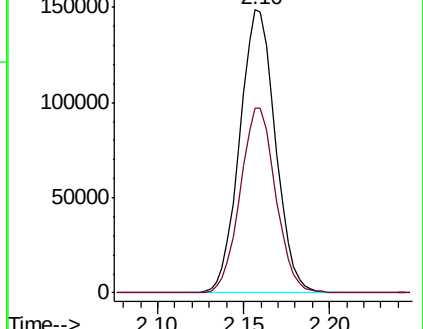
101 100

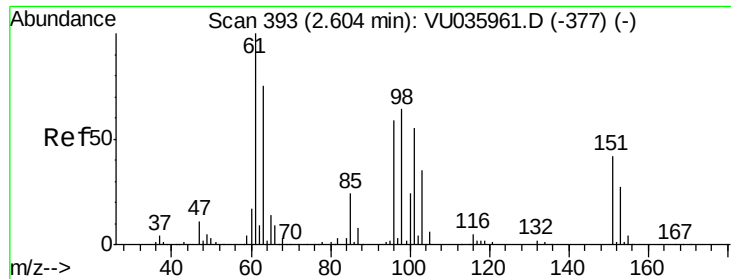
103 65.0 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU035961.D (-241) (-)

Ion 103.00 (102.70 to 103.70): VU035961.D (-241) (-)





#10

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

Concen: 5.453 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

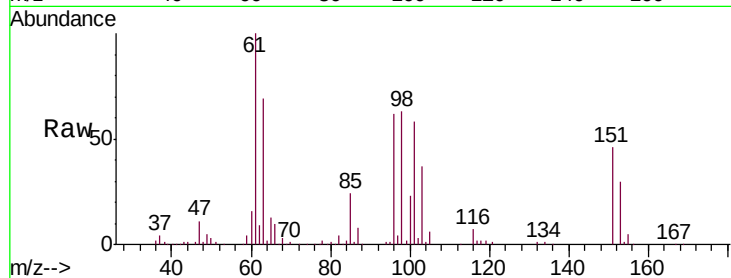
Tgt Ion: 101 Resp: 119575

Ion Ratio Lower Upper

101 100

85 42.1 35.5 53.3

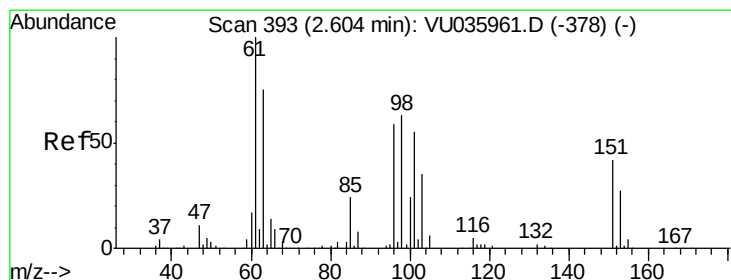
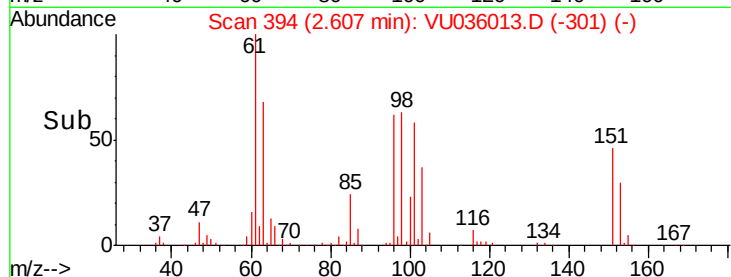
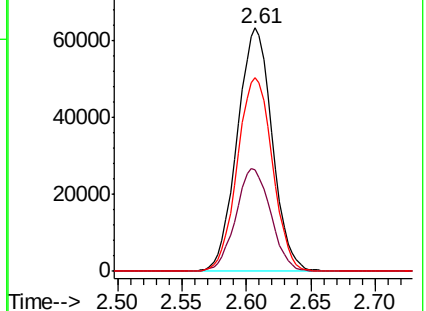
151 80.0 57.5 86.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.397 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

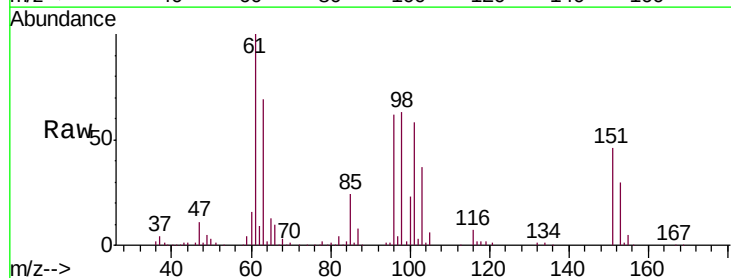
Tgt Ion: 96 Resp: 110362

Ion Ratio Lower Upper

96 100

61 161.1 127.1 236.1

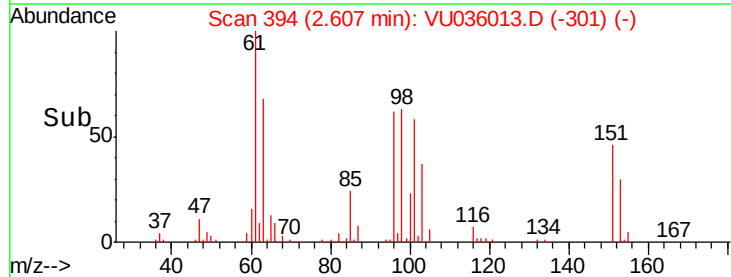
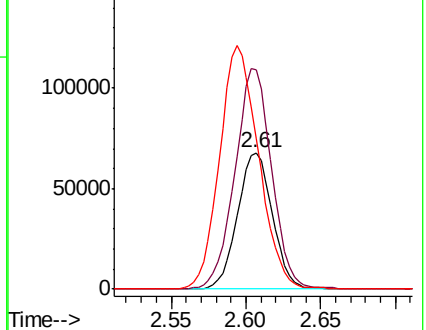
63 110.5 86.0 159.8

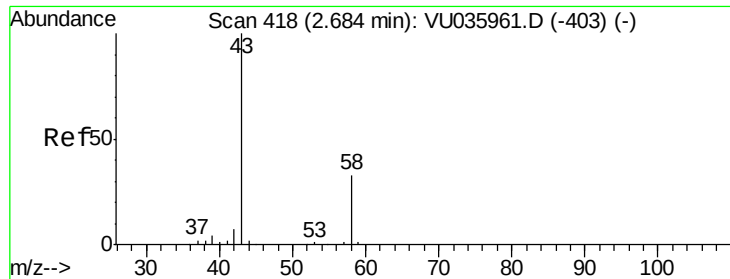


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 36.265 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.01 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

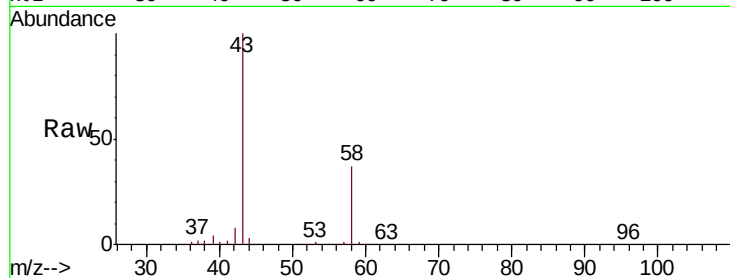
VSTD00524

Tgt Ion: 43 Resp: 188832

Ion Ratio Lower Upper

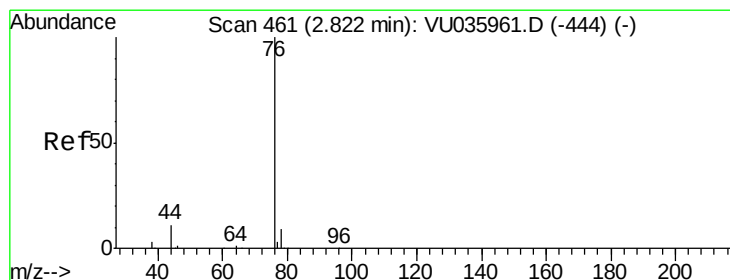
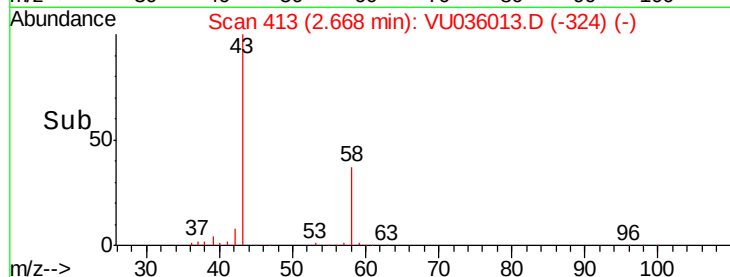
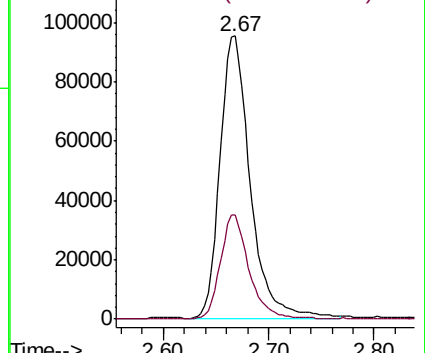
43 100

58 35.0 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU036013.D (-324) (-)

Ion 58.05 (57.75 to 58.75): VU036013.D (-324) (-)



#14

Carbon disulfide

Concen: 5.058 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036013.D

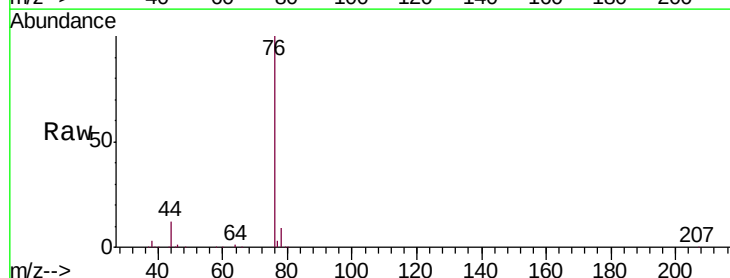
Acq: 06 Dec 2019 09:47

Tgt Ion: 76 Resp: 362271

Ion Ratio Lower Upper

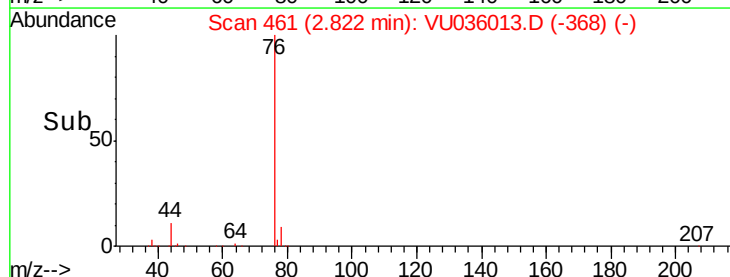
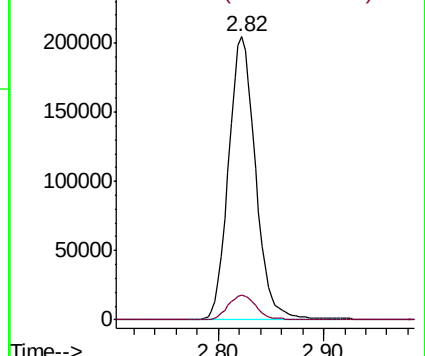
76 100

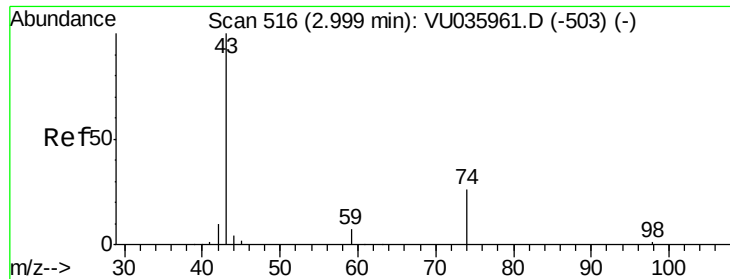
78 8.9 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU036013.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU036013.D (-368) (-)

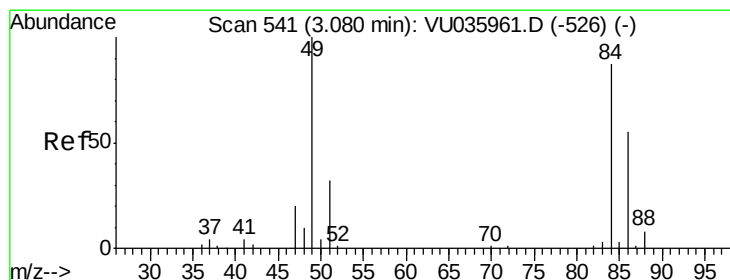
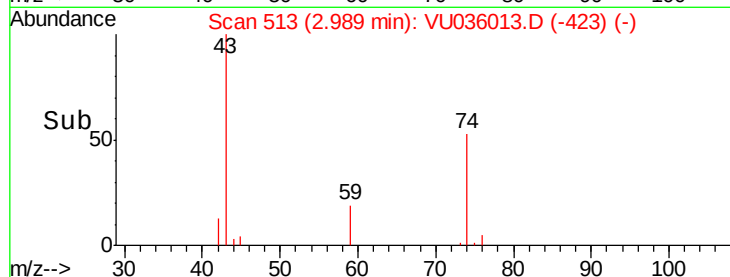
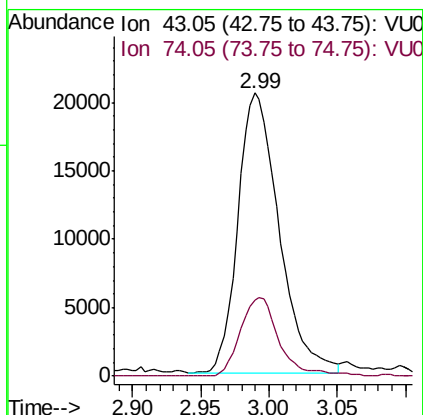
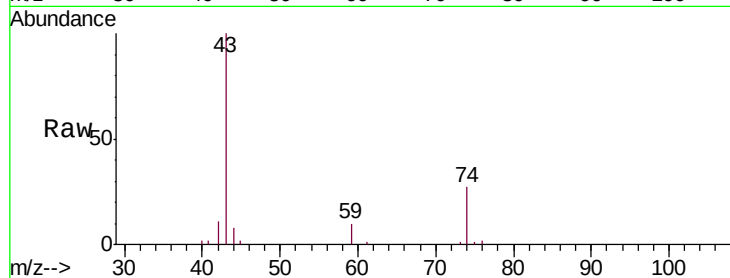




#15
Methyl Acetate
Concen: 4.616 ug/L
RT: 2.99 min Scan# 513
Delta R.T. -0.01 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

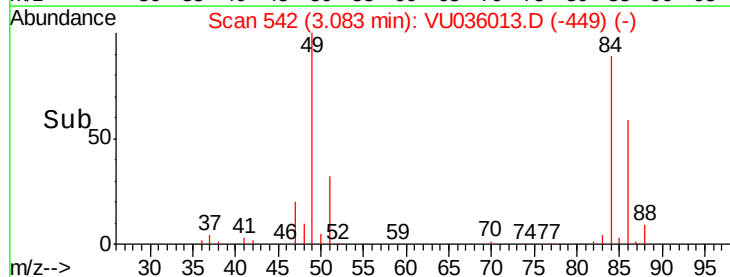
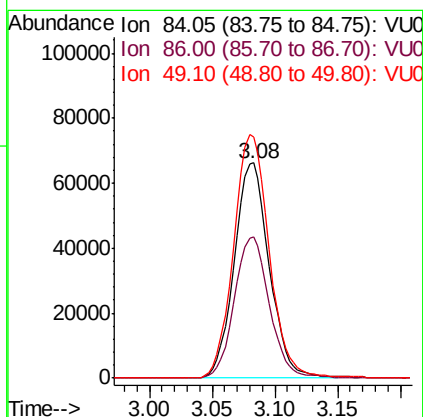
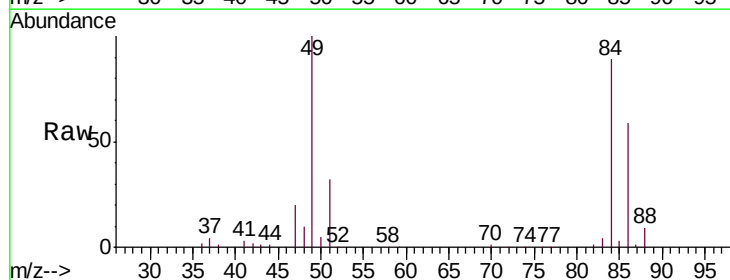
Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

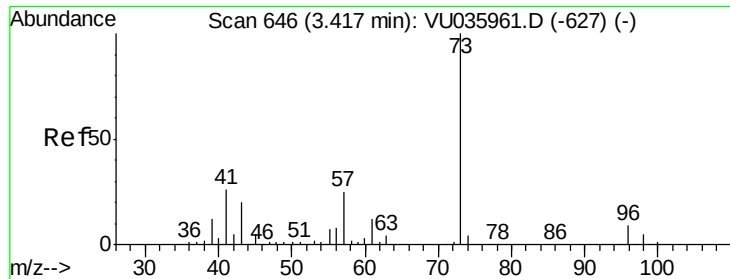
Tgt Ion: 43 Resp: 43076
Ion Ratio Lower Upper
43 100
74 25.3 20.0 30.0



#16
Methylene chloride
Concen: 4.067 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

Tgt Ion: 84 Resp: 128808
Ion Ratio Lower Upper
84 100
86 65.8 44.7 82.9
49 112.3 86.2 160.2

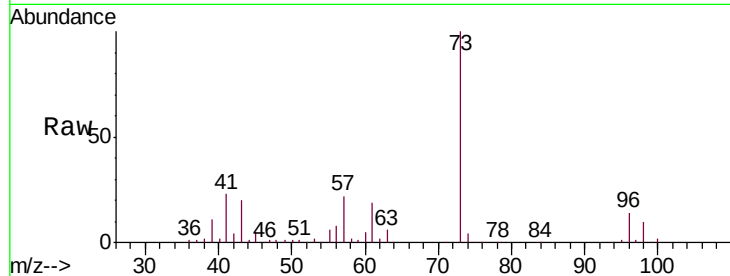




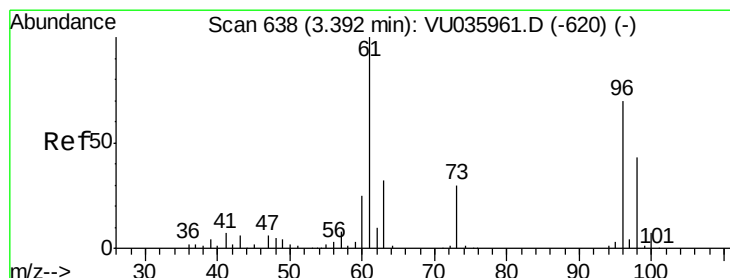
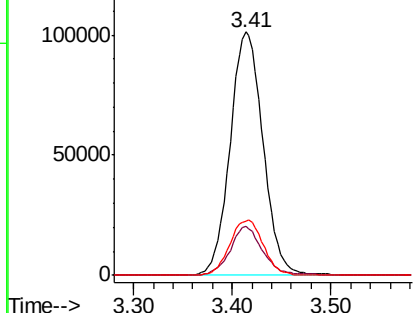
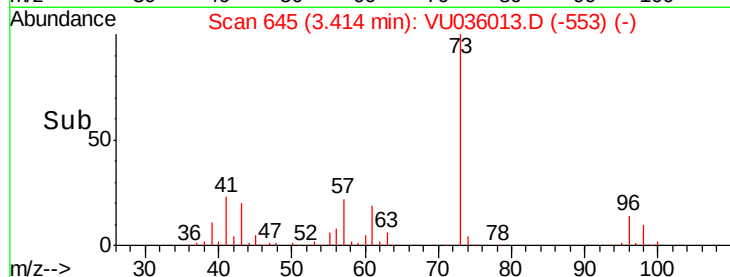
#17
Methyl tert-butyl Ether
Concen: 4.911 ug/L
RT: 3.41 min Scan# 645
Delta R.T. -0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

Tgt Ion: 73 Resp: 235244
Ion Ratio Lower Upper
73 100
43 19.1 15.9 23.9
57 23.2 18.8 28.2

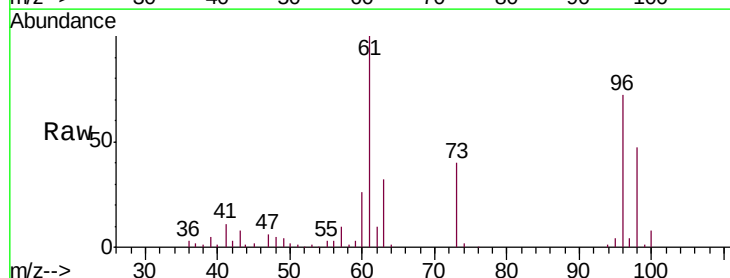


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

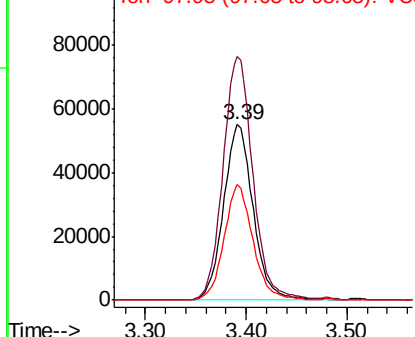
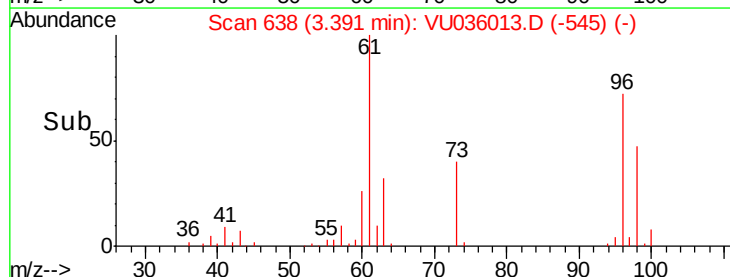


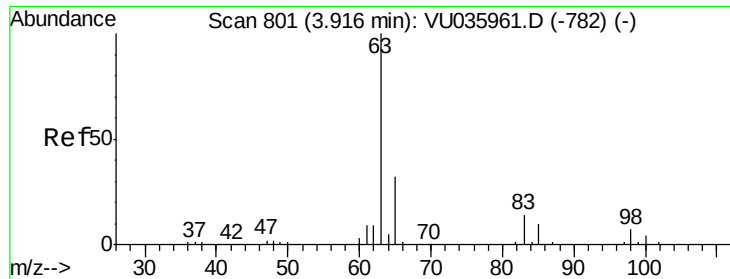
#18
trans-1,2-Dichloroethene
Concen: 5.217 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

Tgt Ion: 96 Resp: 112950
Ion Ratio Lower Upper
96 100
61 138.8 101.2 187.8
98 65.6 45.0 83.6



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

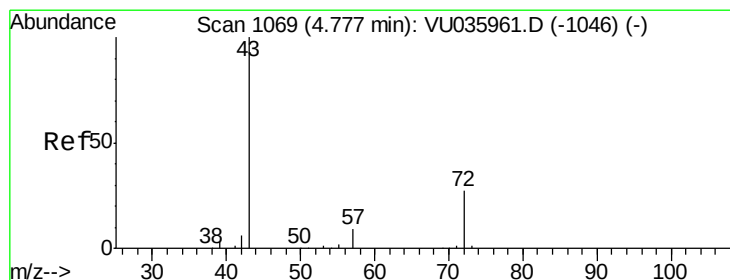
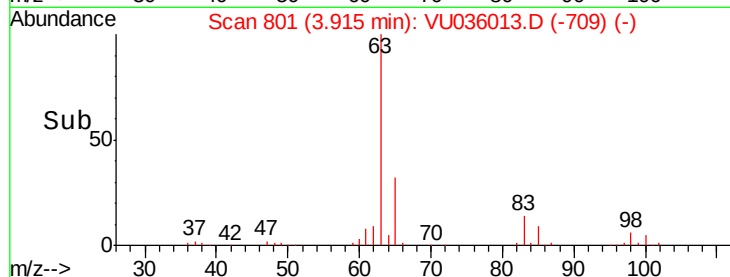
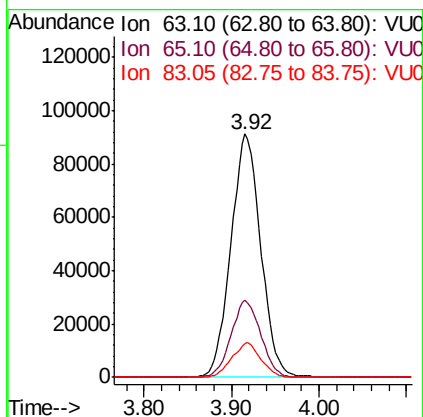
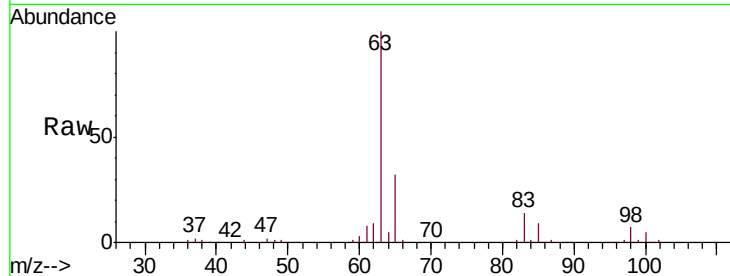




#19
 1,1-Dichloroethane
 Concen: 5.105 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

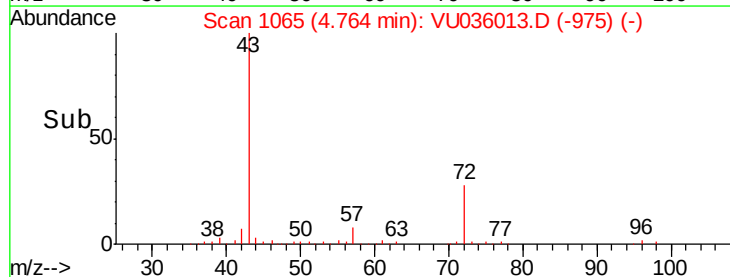
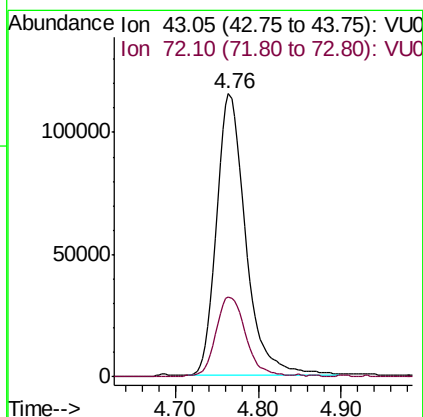
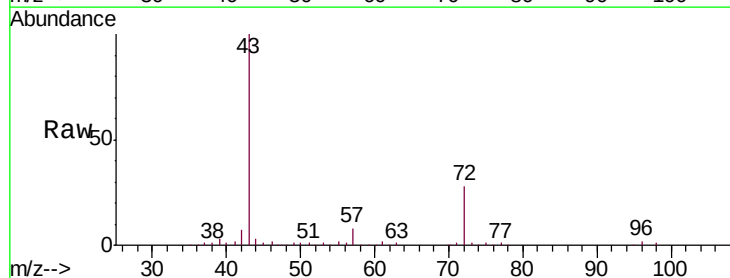
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

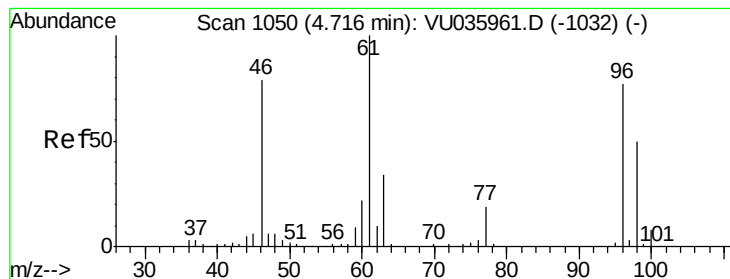
Tgt Ion: 63 Resp: 216049
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.4 41.6
 83 13.8 9.8 18.2



#21
 2-Butanone
 Concen: 42.261 ug/L
 RT: 4.76 min Scan# 1065
 Delta R.T. -0.01 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Tgt Ion: 43 Resp: 282485
 Ion Ratio Lower Upper
 43 100
 72 29.4 12.6 37.8





#22

cis-1,2-Dichloroethene

Concen: 5.424 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

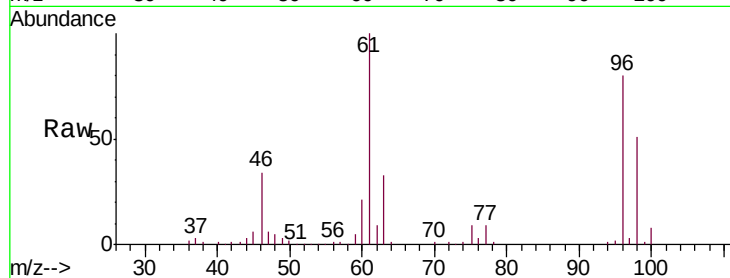
Tgt Ion: 96 Resp: 124075

Ion Ratio Lower Upper

96 100

61 125.3 95.7 177.7

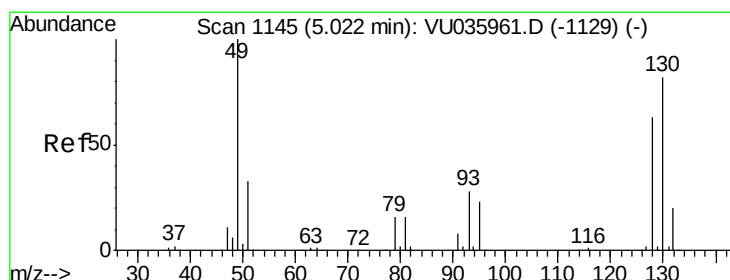
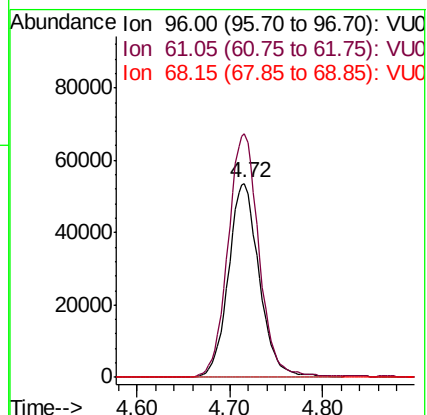
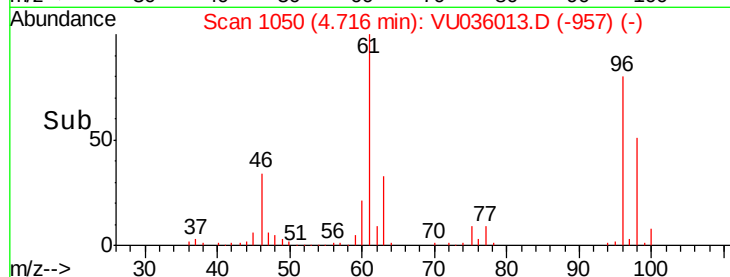
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036013.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036013.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036013.D (-957) (-)



#23

Bromochloromethane

Concen: 5.775 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Tgt Ion: 128 Resp: 60466

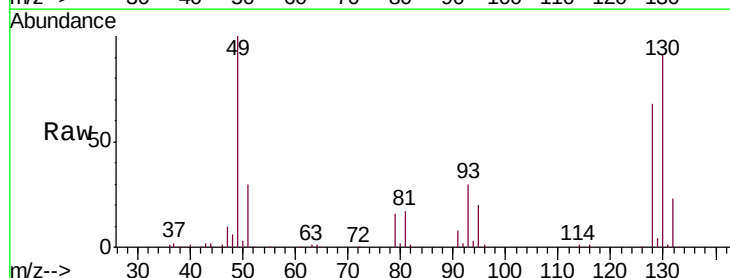
Ion Ratio Lower Upper

128 100

49 147.0 118.3 219.7

130 133.5 86.9 161.3

51 43.9 45.6 68.4#

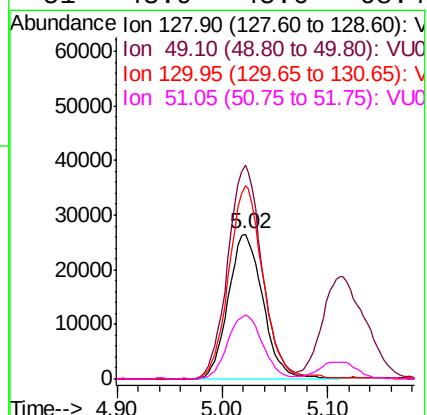
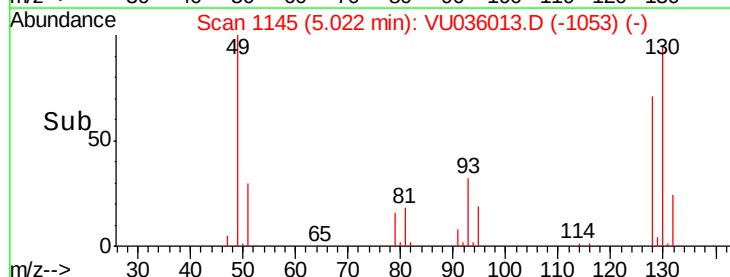


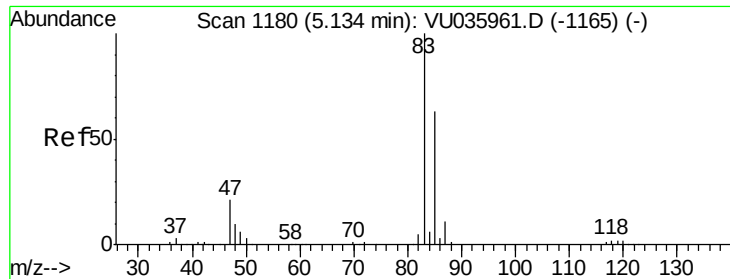
Abundance Ion 127.90 (127.60 to 128.60): VU036013.D (-1053) (-)

Ion 49.10 (48.80 to 49.80): VU036013.D (-1053) (-)

Ion 129.95 (129.65 to 130.65): VU036013.D (-1053) (-)

Ion 51.05 (50.75 to 51.75): VU036013.D (-1053) (-)

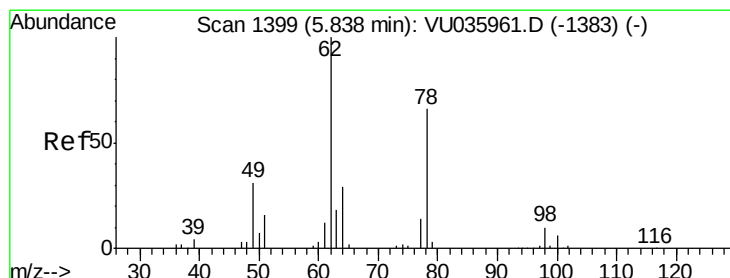
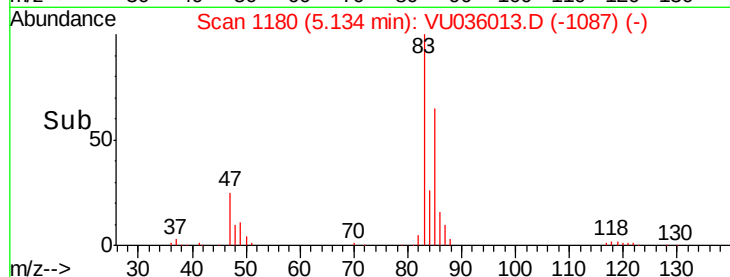
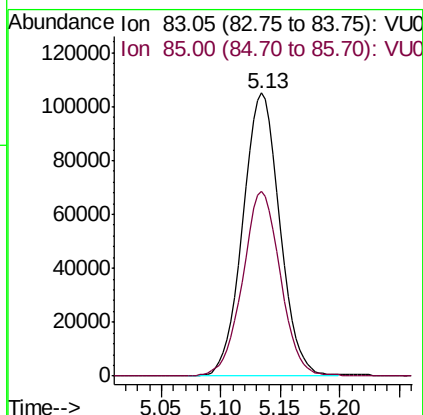
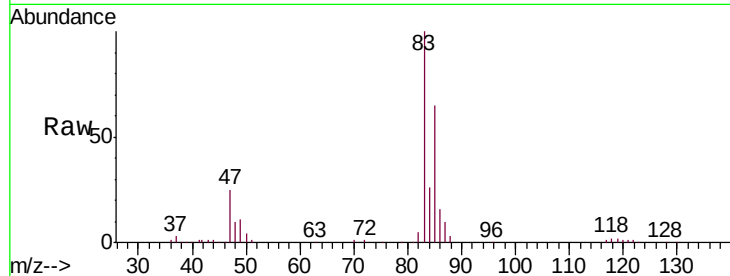




#25
Chloroform
Concen: 5.299 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

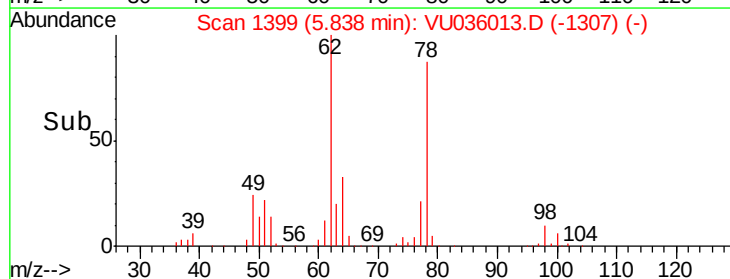
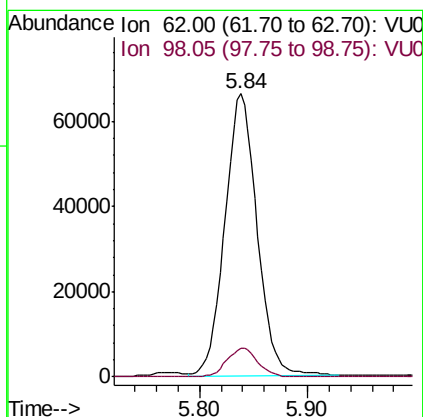
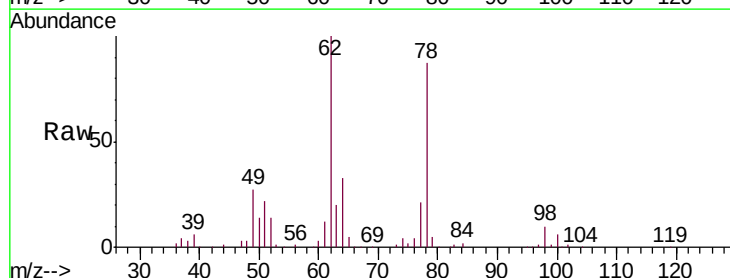
Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

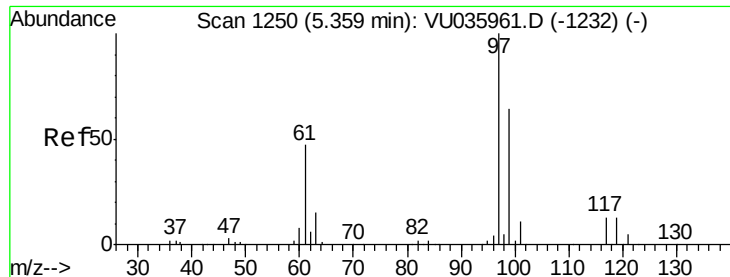
Tgt Ion: 83 Resp: 226282
Ion Ratio Lower Upper
83 100
85 65.2 45.4 84.2



#27
1,2-Dichloroethane
Concen: 5.063 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

Tgt Ion: 62 Resp: 138190
Ion Ratio Lower Upper
62 100
98 10.0 7.6 11.4

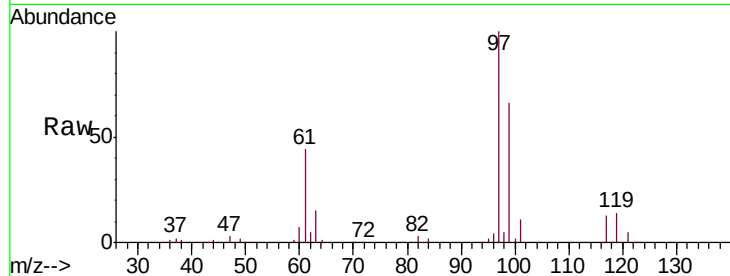




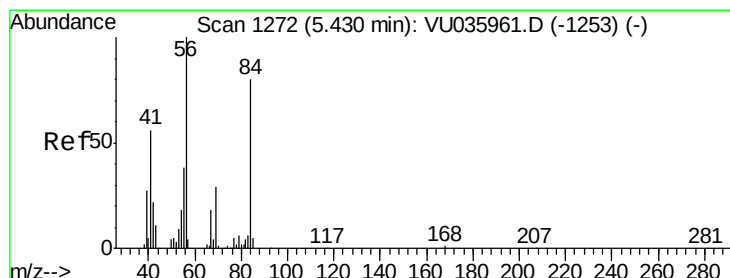
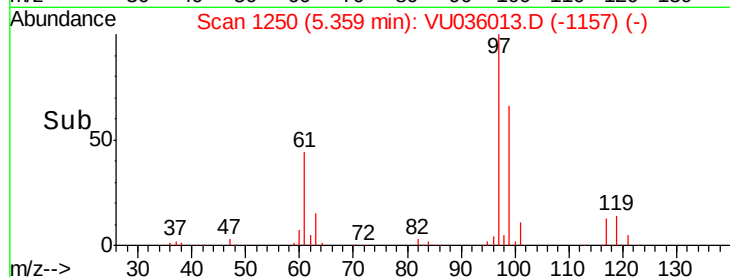
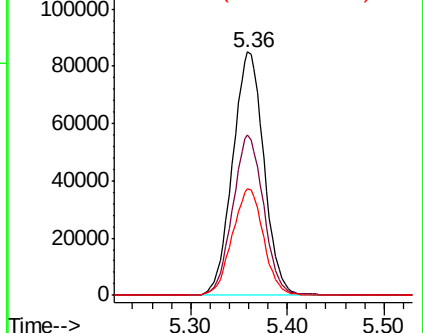
#29
 1,1,1-Trichloroethane
 Concen: 5.356 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

Tgt Ion: 97 Resp: 190740
 Ion Ratio Lower Upper
 97 100
 99 65.3 51.8 77.8
 61 43.8 37.6 56.4

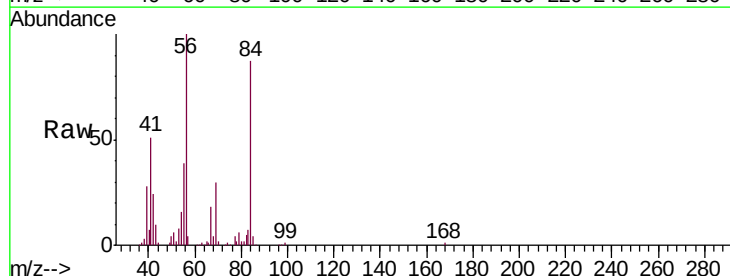


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

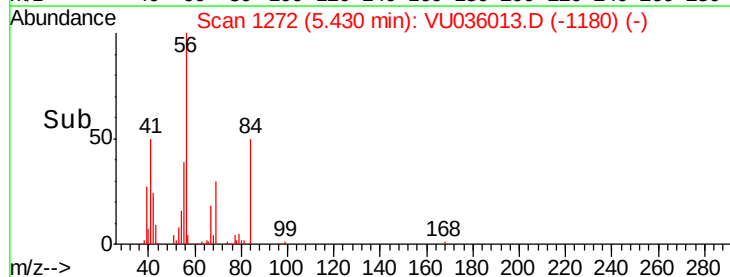
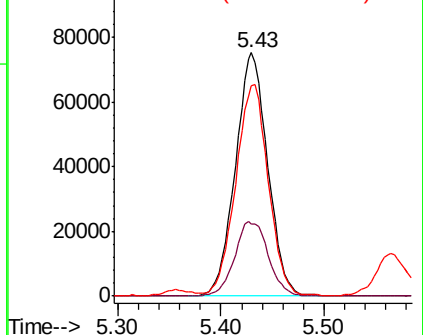


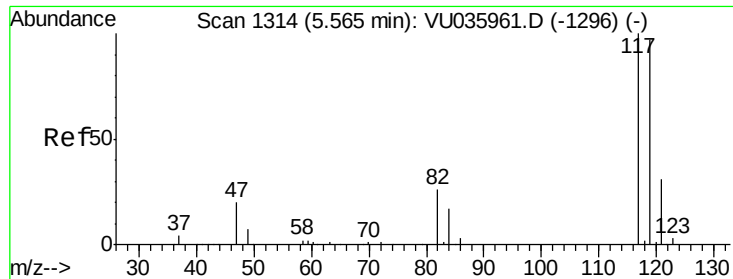
#30
 Cyclohexane
 Concen: 4.658 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Tgt Ion: 56 Resp: 163826
 Ion Ratio Lower Upper
 56 100
 69 31.9 24.0 36.0
 84 87.6 66.9 100.3



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.453 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

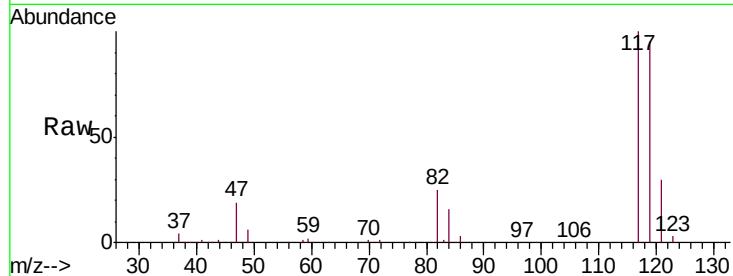
VSTD00524

Tgt Ion:117 Resp: 172169

Ion Ratio Lower Upper

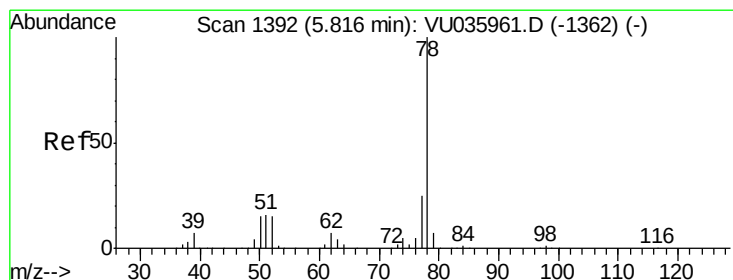
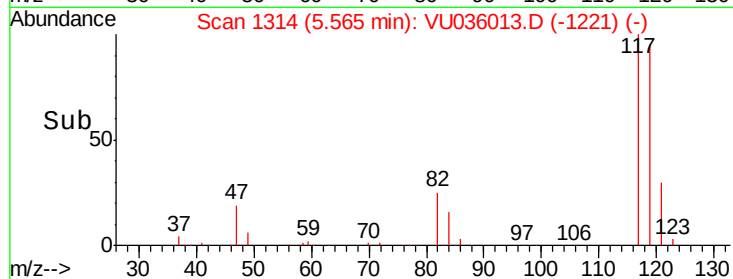
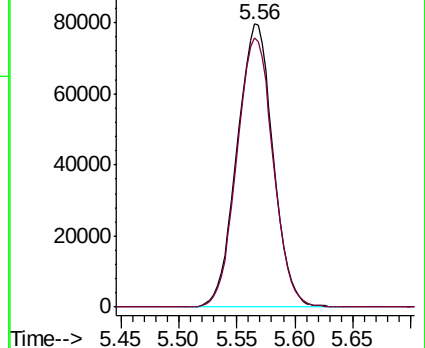
117 100

119 95.9 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.330 ug/L

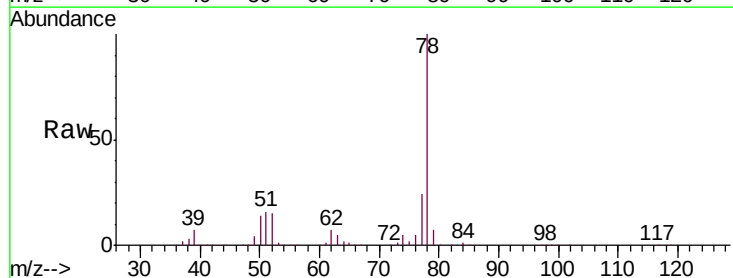
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

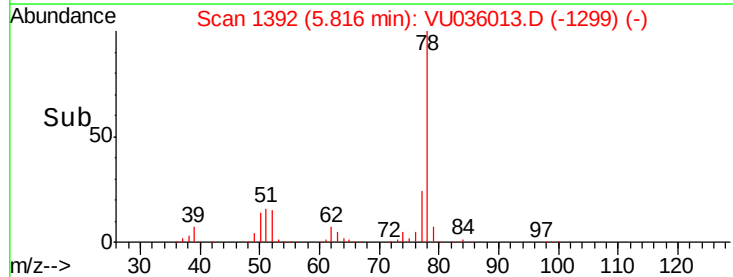
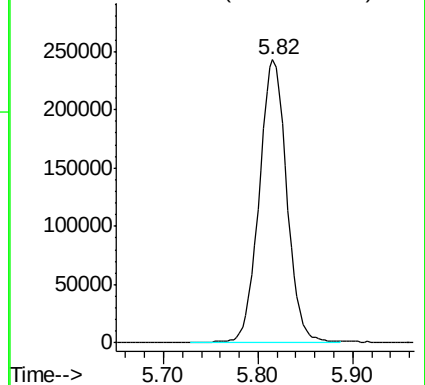
Lab File: VU036013.D

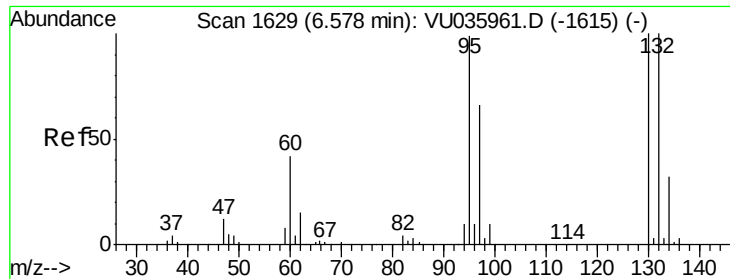
Acq: 06 Dec 2019 09:47

Tgt Ion: 78 Resp: 493558



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.225 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

Tgt Ion: 95 Resp: 122337

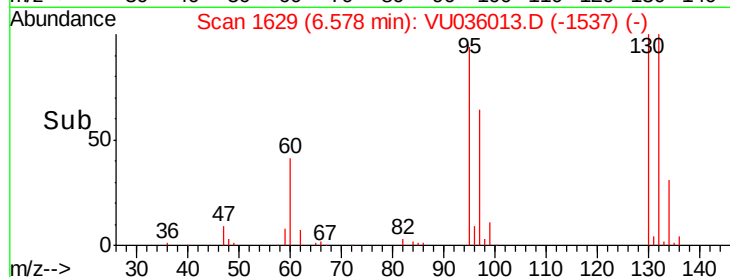
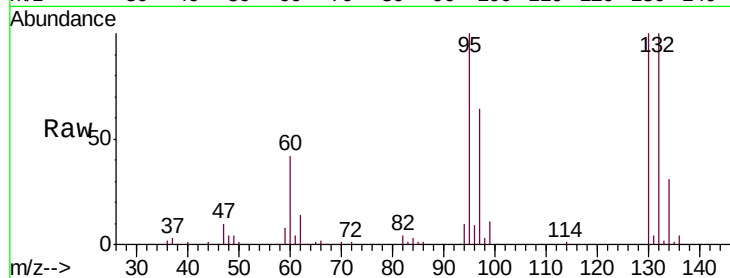
Ion Ratio Lower Upper

95 100

97 64.5 46.3 85.9

132 100.4 65.7 122.1

130 100.3 69.2 128.6

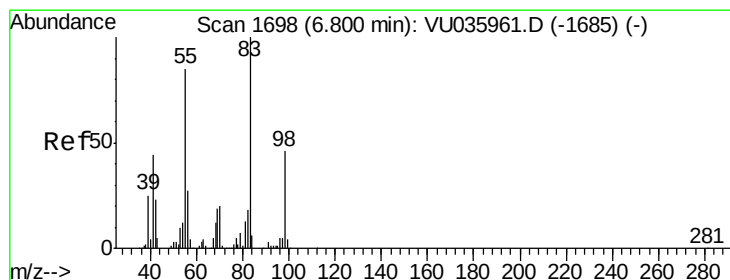
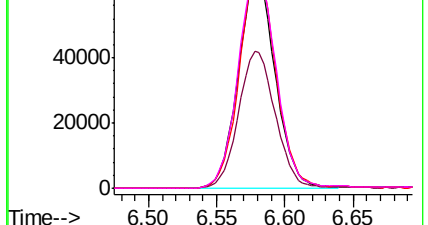


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.007 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

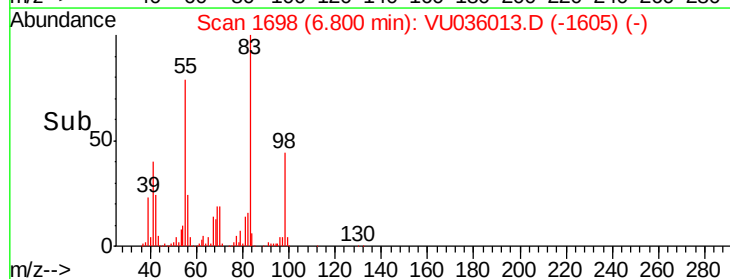
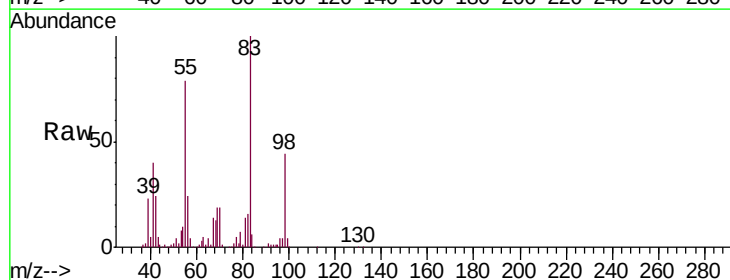
Tgt Ion: 83 Resp: 175787

Ion Ratio Lower Upper

83 100

55 79.7 67.4 101.0

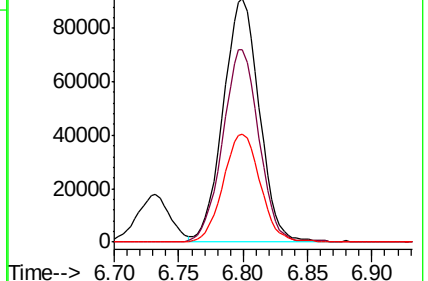
98 45.7 34.6 52.0

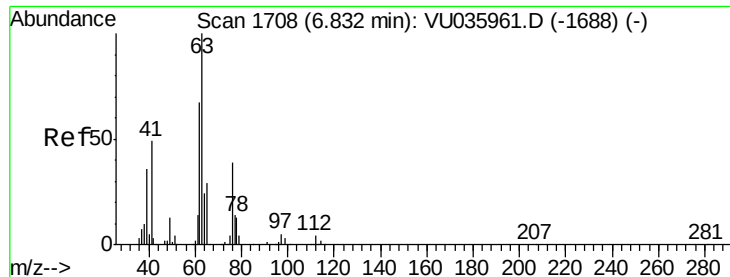


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

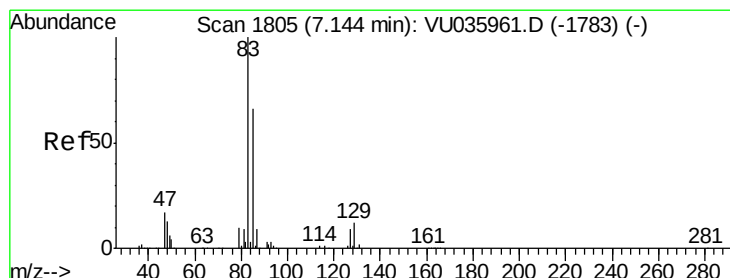
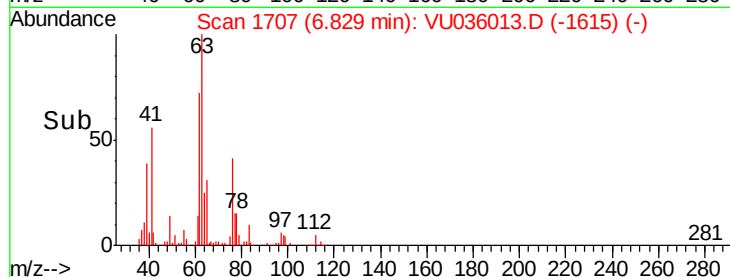
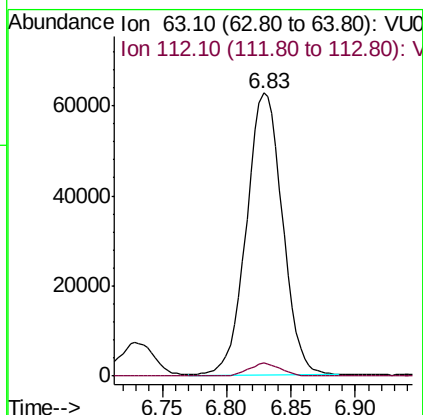
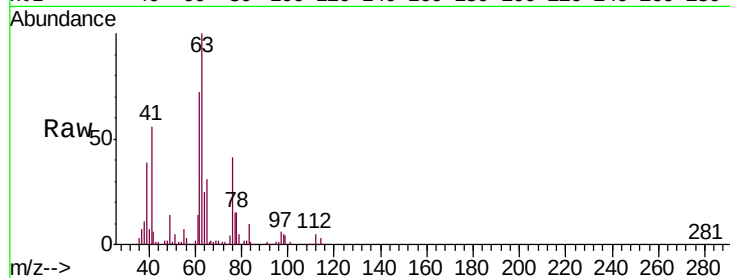




#37
 1,2-Dichloropropane
 Concen: 4.872 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

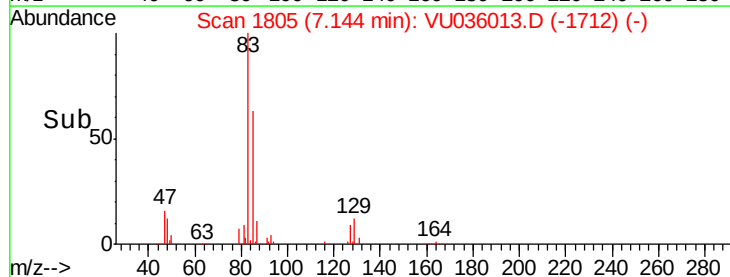
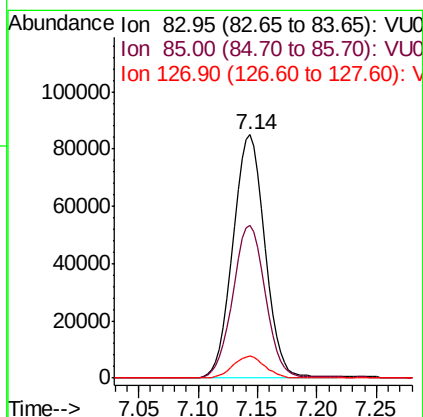
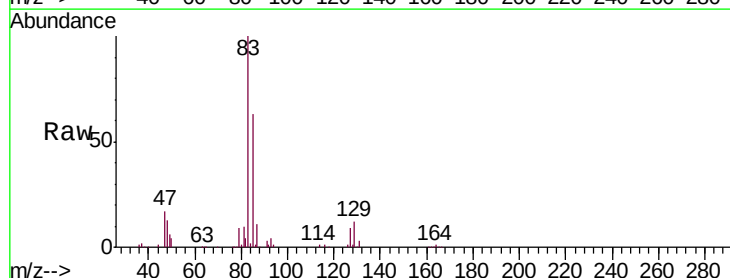
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

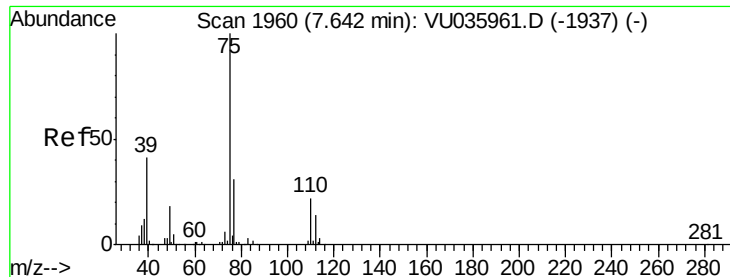
Tgt Ion: 63 Resp: 122145
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.3 4.9



#38
 Bromodichloromethane
 Concen: 5.281 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Tgt Ion: 83 Resp: 158468
 Ion Ratio Lower Upper
 83 100
 85 62.6 44.0 81.8
 127 8.9 6.5 9.7





#39

cis-1,3-Dichloropropene

Concen: 4.971 ug/L

RT: 7.64 min Scan# 1960

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampled :

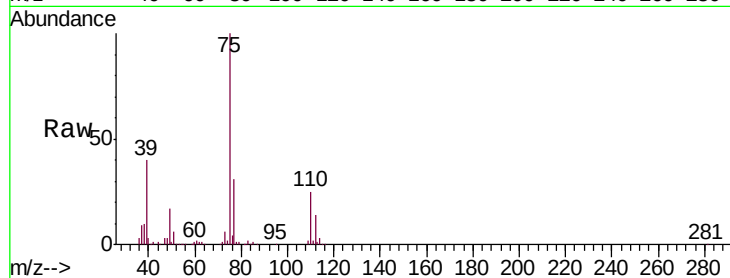
VSTD00524

Tgt Ion: 75 Resp: 165366

Ion Ratio Lower Upper

75 100

77 31.1 21.9 40.7



Abundance Ion 75.05 (74.75 to 75.75): VU036013.D (-1967) (-)

Ion 77.05 (76.75 to 77.75): VU036013.D (-1967) (-)

7.64

100000

80000

60000

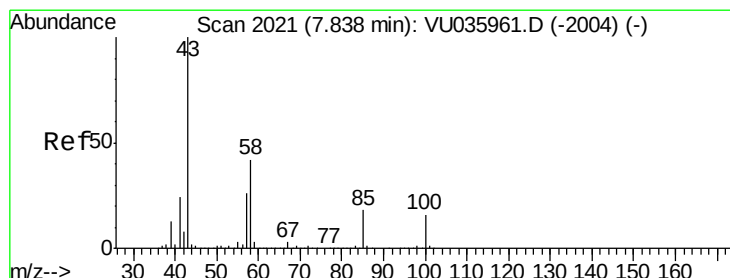
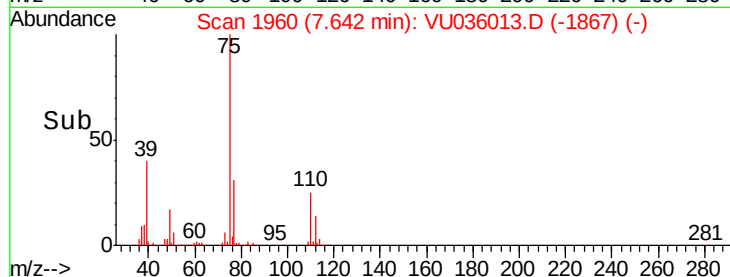
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#40

4-Methyl-2-pentanone

Concen: 43.014 ug/L

RT: 7.83 min Scan# 2020

Delta R.T. -0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

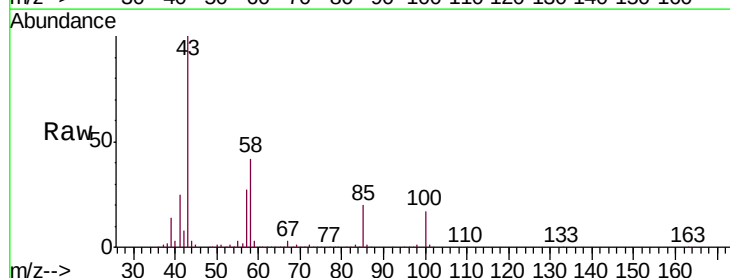
Tgt Ion: 43 Resp: 633846

Ion Ratio Lower Upper

43 100

58 42.4 32.3 48.5

100 16.8 11.7 17.5



Abundance Ion 43.05 (42.75 to 43.75): VU036013.D (-1928) (-)

Ion 58.05 (57.75 to 58.75): VU036013.D (-1928) (-)

Ion 100.15 (99.85 to 100.85): VU036013.D (-1928) (-)

7.83

400000

300000

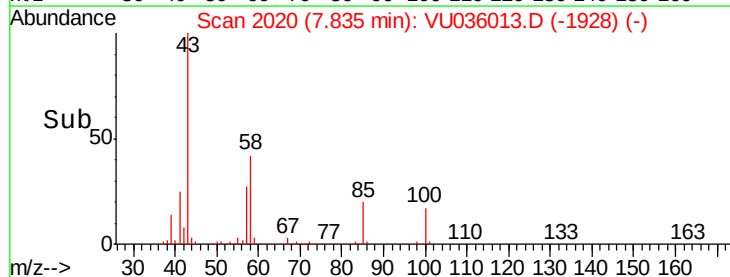
200000

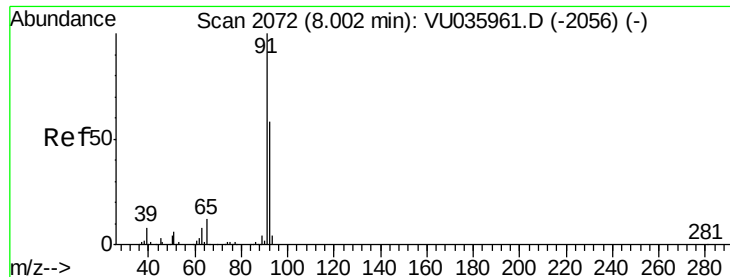
100000

0

7.75 7.80 7.85 7.90 7.95

Time-->





#42

Toluene

Concen: 5.448 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

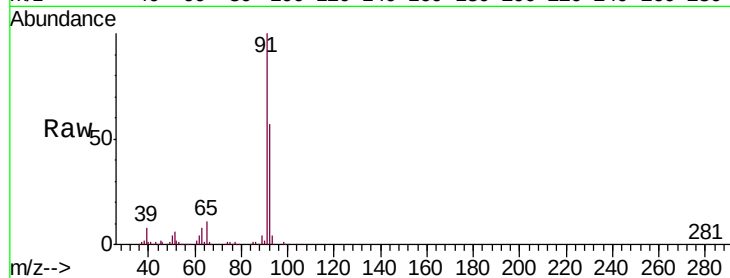
VSTD00524

Tgt Ion: 91 Resp: 526935

Ion Ratio Lower Upper

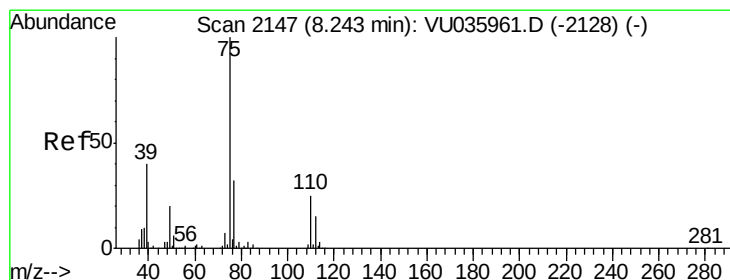
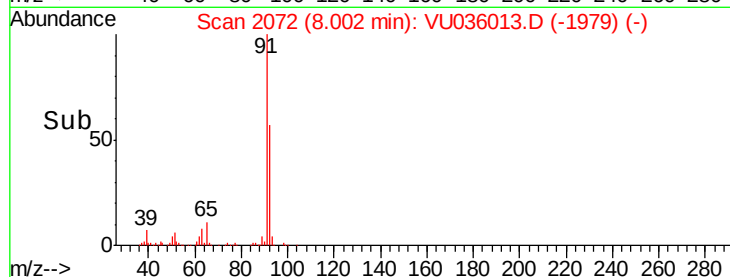
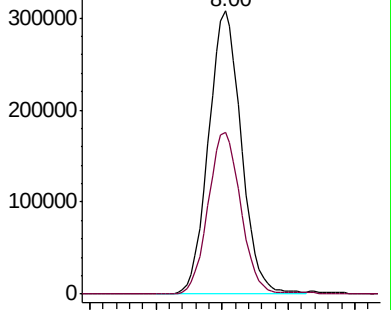
91 100

92 57.2 39.8 74.0



Abundance Ion 91.15 (90.85 to 91.85): VU036013.D (-1979) (-)

Ion 92.15 (91.85 to 92.85): VU036013.D (-1979) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.915 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036013.D

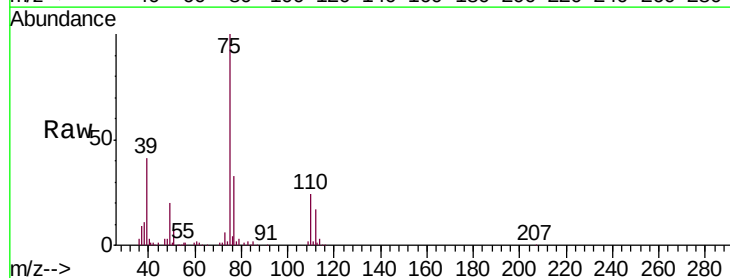
Acq: 06 Dec 2019 09:47

Tgt Ion: 75 Resp: 139781

Ion Ratio Lower Upper

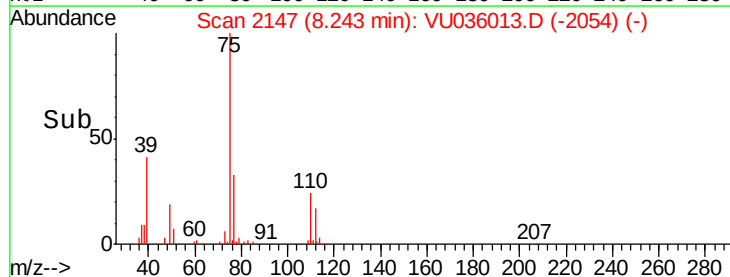
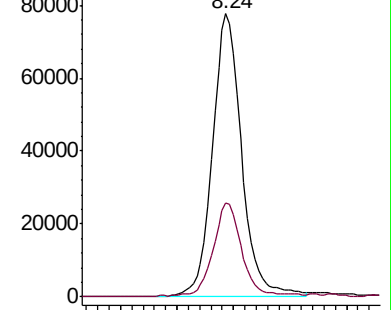
75 100

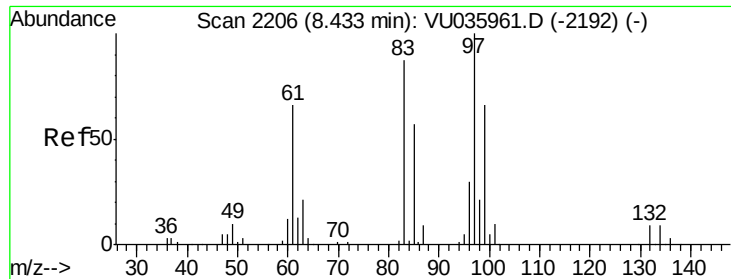
77 33.4 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU036013.D (-2054) (-)

Ion 77.05 (76.75 to 77.75): VU036013.D (-2054) (-)

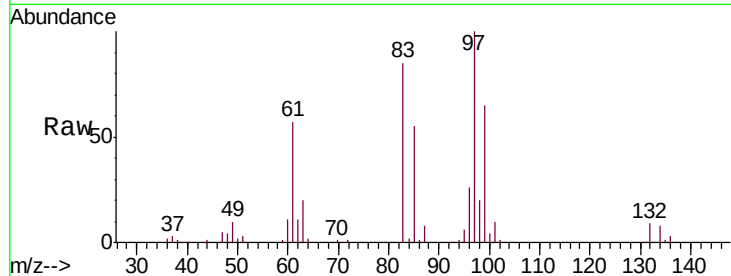




#45
 1,1,2-Trichloroethane
 Concen: 5.373 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

Tgt Ion:	97	Resp:	91700
Ion	Ratio	Lower	Upper
97	100		
99	64.8	45.0	83.6
83	85.4	62.1	115.3
85	55.2	41.4	77.0



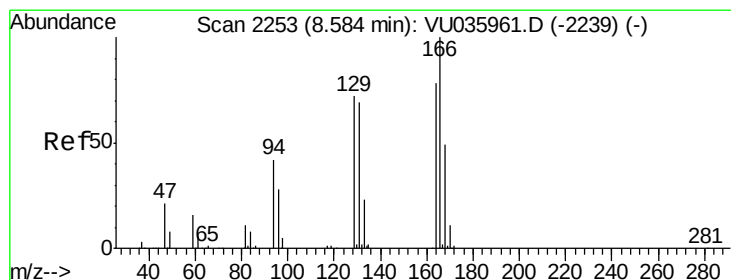
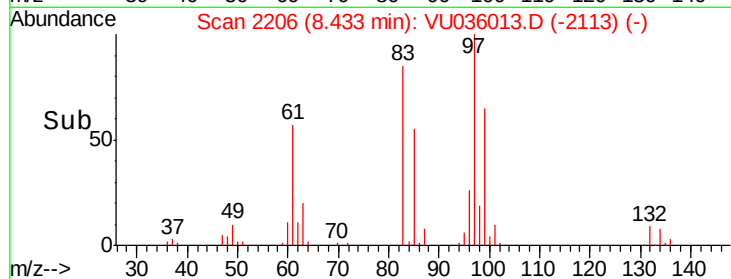
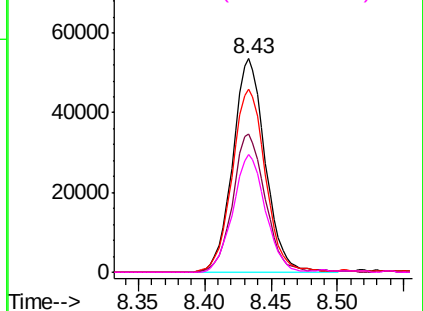
Abundance

Ion 96.95 (96.65 to 97.65): VU036013.D (-2113) (-)

Ion 99.05 (98.75 to 99.75): VU036013.D (-2113) (-)

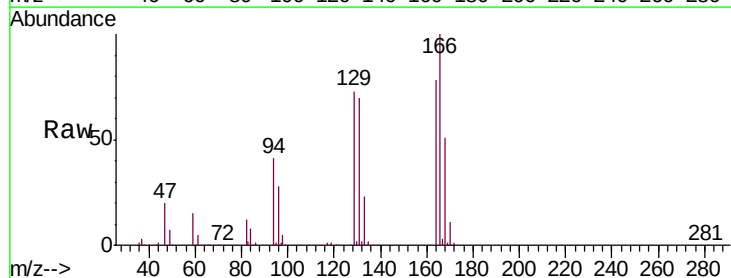
Ion 82.95 (82.65 to 83.65): VU036013.D (-2113) (-)

Ion 85.00 (84.70 to 85.70): VU036013.D (-2113) (-)



#47
 Tetrachloroethene
 Concen: 5.706 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Tgt Ion:	164	Resp:	108594
Ion	Ratio	Lower	Upper
164	100		
129	93.2	67.9	126.1
131	89.7	64.1	119.1
166	128.3	92.6	172.0



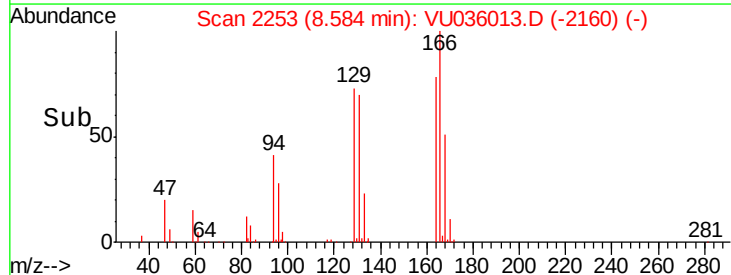
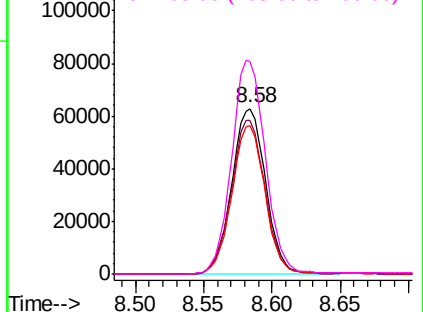
Abundance

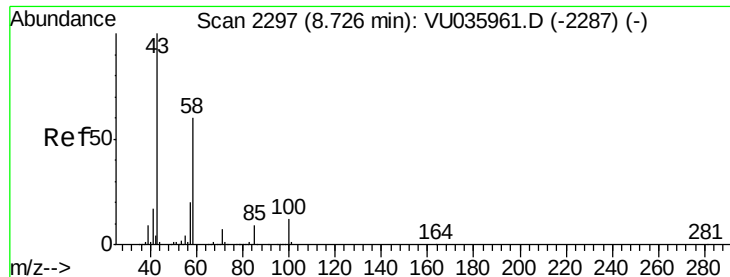
Ion 163.90 (163.60 to 164.60): VU036013.D (-2160) (-)

Ion 128.95 (128.65 to 129.65): VU036013.D (-2160) (-)

Ion 130.95 (130.65 to 131.65): VU036013.D (-2160) (-)

Ion 165.90 (165.60 to 166.60): VU036013.D (-2160) (-)

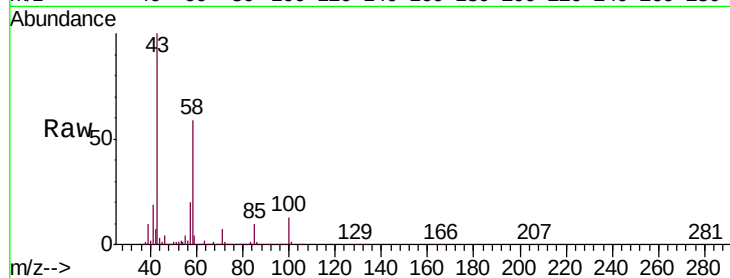




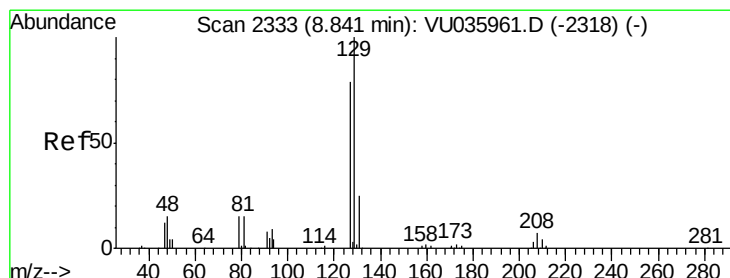
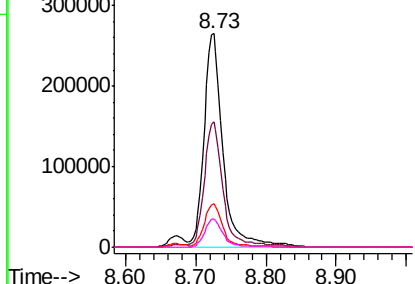
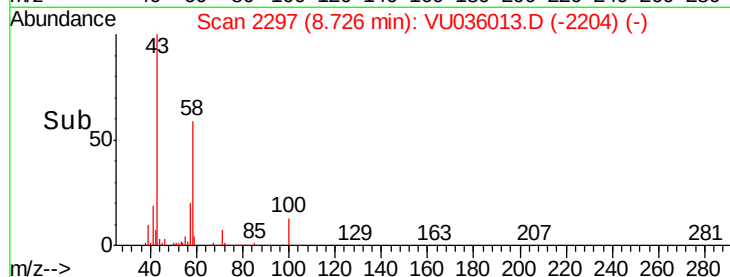
#48
2-Hexanone
Concen: 45.659 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

Tgt Ion:	43	Resp:	496979
Ion	Ratio	Lower	Upper
43	100		
58	55.7	45.4	68.2
57	20.5	14.9	22.3
100	12.3	8.6	13.0

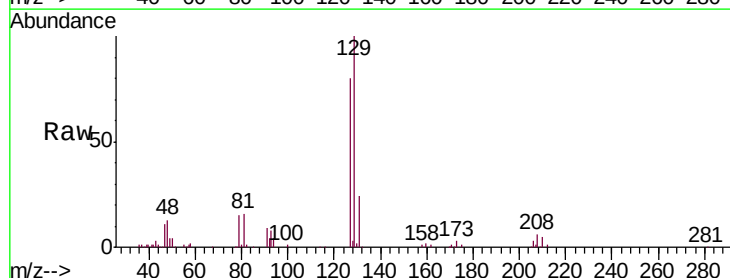


Abundance Ion 43.05 (42.75 to 43.75): VU036013.D (-2204) (-)
Ion 58.05 (57.75 to 58.75): VU036013.D (-2204) (-)
Ion 57.20 (56.90 to 57.90): VU036013.D (-2204) (-)
Ion 100.15 (99.85 to 100.85): VU036013.D (-2204) (-)

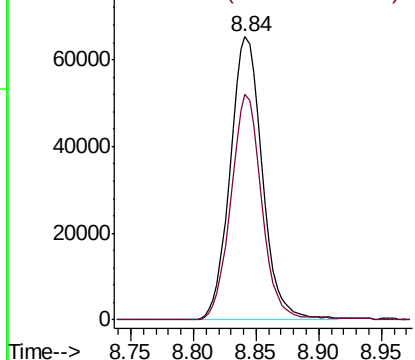
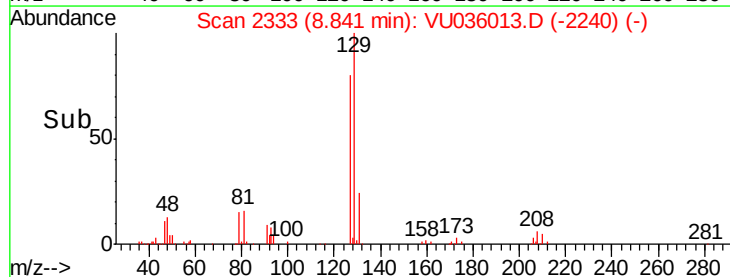


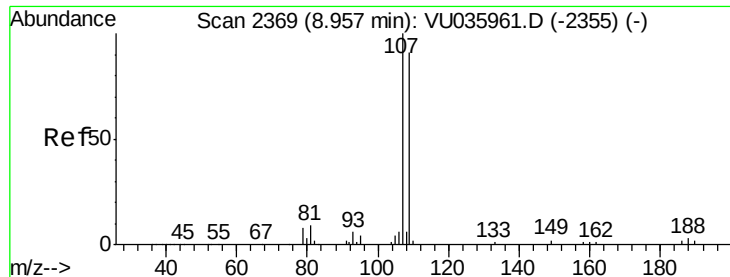
#49
Dibromochloromethane
Concen: 5.586 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

Tgt Ion:	129	Resp:	116269
Ion	Ratio	Lower	Upper
129	100		
127	79.6	52.8	98.0



Abundance Ion 128.95 (128.65 to 129.65): VU036013.D (-2240) (-)
Ion 126.90 (126.60 to 127.60): VU036013.D (-2240) (-)

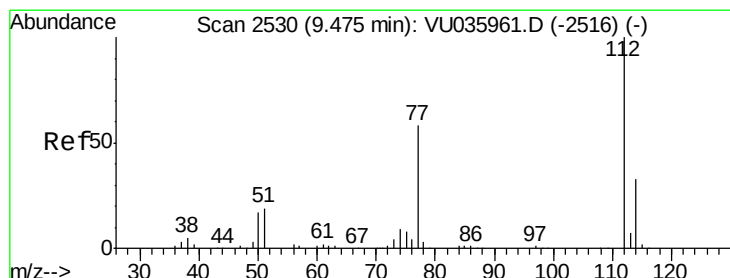
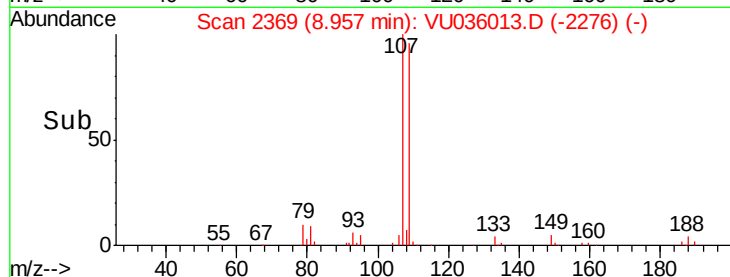
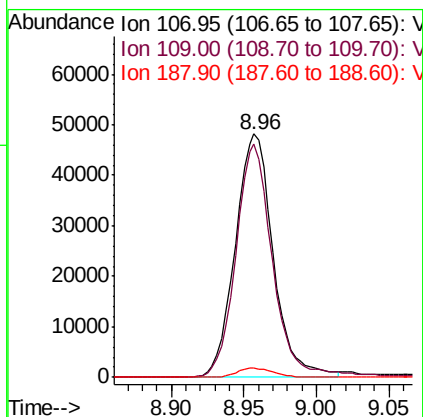
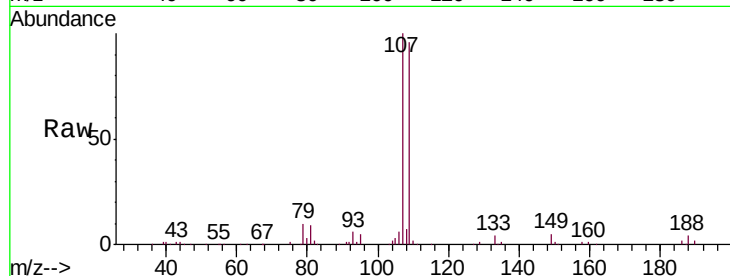




#50
1,2-Dibromoethane
Concen: 5.281 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

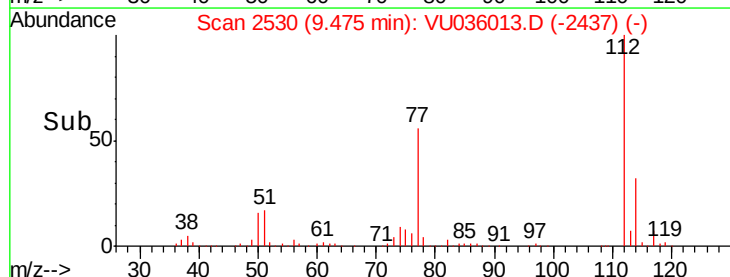
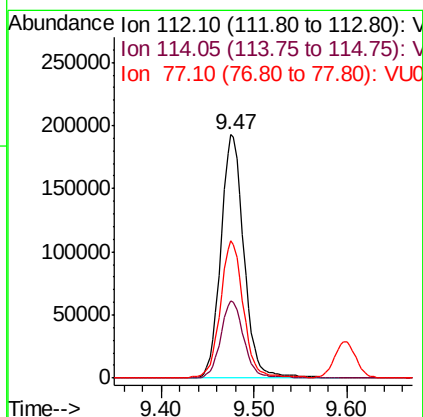
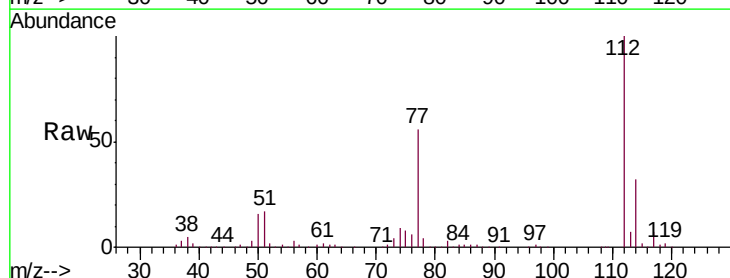
Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

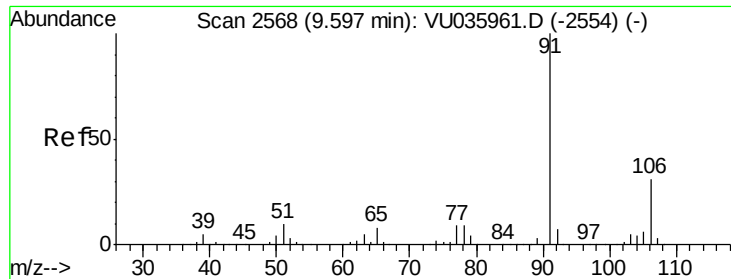
Tgt Ion:107 Resp: 87458
Ion Ratio Lower Upper
107 100
109 95.8 62.5 116.1
188 3.6 3.0 4.6



#51
Chlorobenzene
Concen: 5.509 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

Tgt Ion:112 Resp: 332721
Ion Ratio Lower Upper
112 100
114 31.8 22.5 41.7
77 56.4 47.7 71.5





#52

Ethylbenzene

Concen: 5.264 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

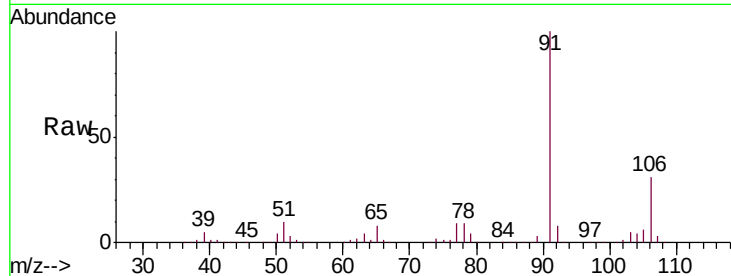
VSTD00524

Tgt Ion: 91 Resp: 514647

Ion Ratio Lower Upper

91 100

106 30.8 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU035961.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU035961.D (-2554) (-)

9.60

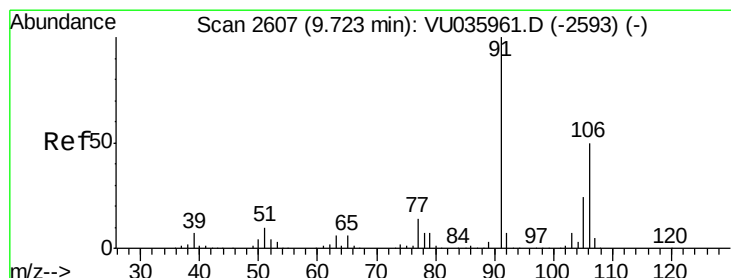
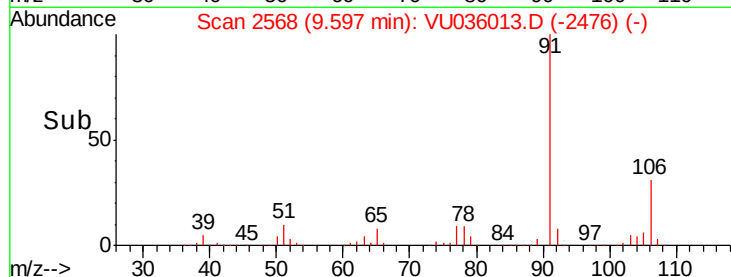
300000

200000

100000

0

Time-->



#53

m,p-Xylene

Concen: 5.524 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036013.D

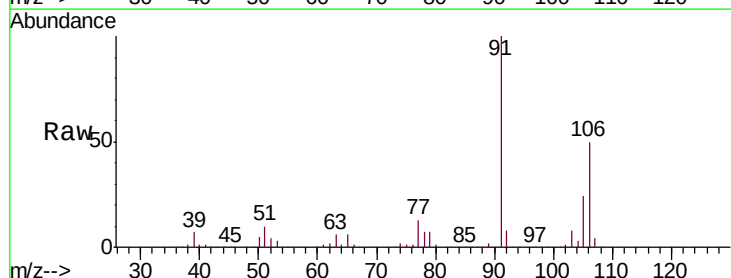
Acq: 06 Dec 2019 09:47

Tgt Ion: 106 Resp: 203884

Ion Ratio Lower Upper

106 100

91 200.3 138.9 257.9



Abundance Ion 106.15 (105.85 to 106.85): VU035961.D (-2593) (-)

Ion 91.15 (90.85 to 91.85): VU035961.D (-2593) (-)

9.72

250000

200000

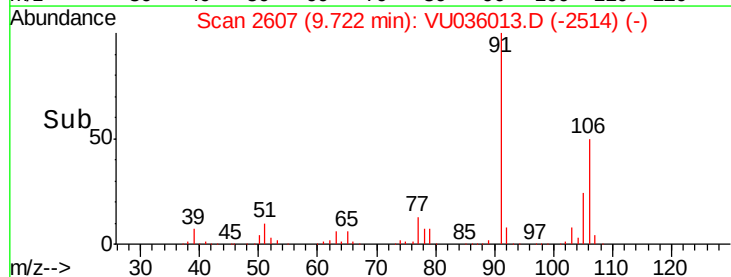
150000

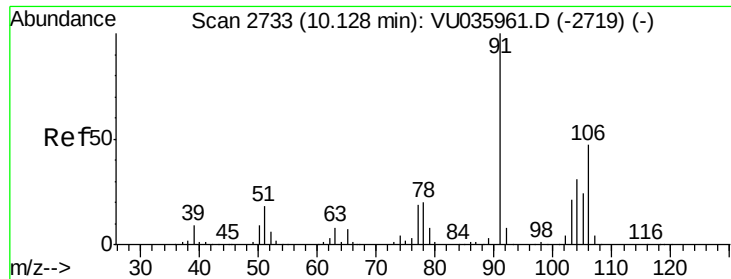
100000

50000

0

Time-->

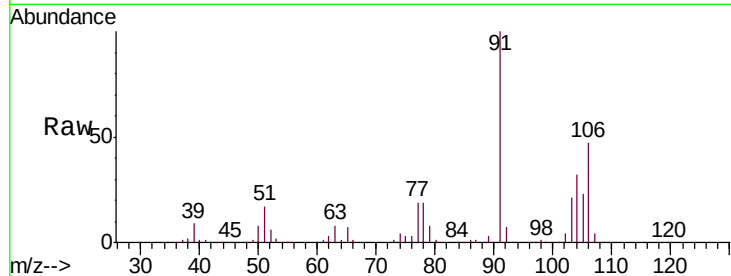




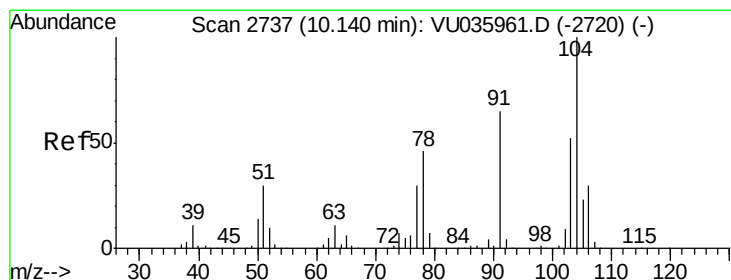
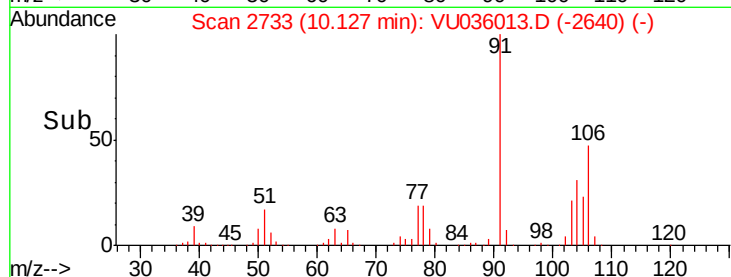
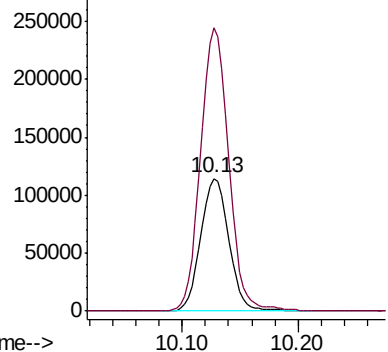
#54
o-Xylene
Concen: 5.540 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

Tgt Ion:106 Resp: 191875
Ion Ratio Lower Upper
106 100
91 213.8 155.3 288.3

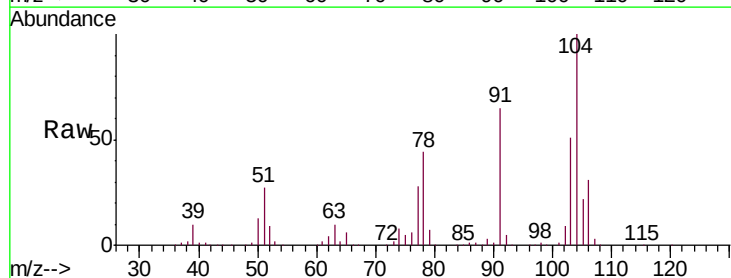


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

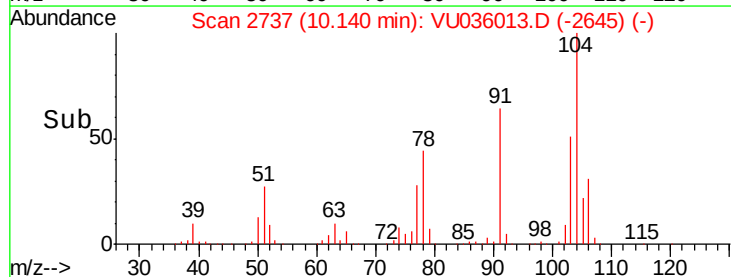
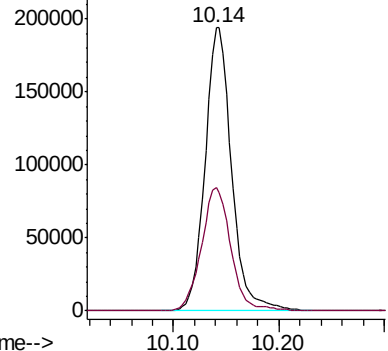


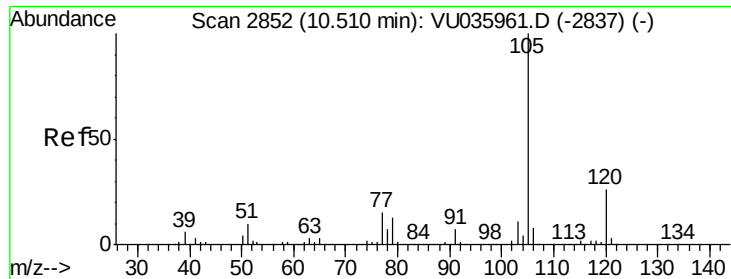
#55
Styrene
Concen: 5.773 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. -0.00 min
Lab File: VU036013.D
Acq: 06 Dec 2019 09:47

Tgt Ion:104 Resp: 336227
Ion Ratio Lower Upper
104 100
78 43.7 31.2 58.0



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.453 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

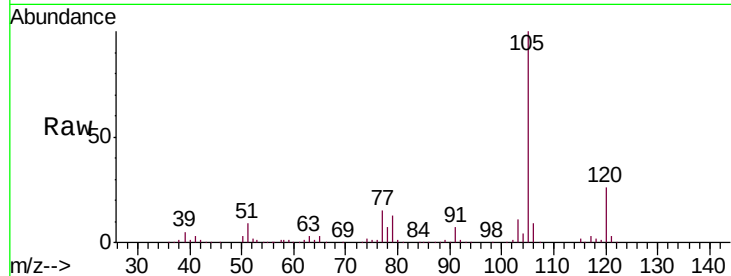
Tgt Ion: 105 Resp: 495051

Ion Ratio Lower Upper

105 100

120 26.6 21.3 31.9

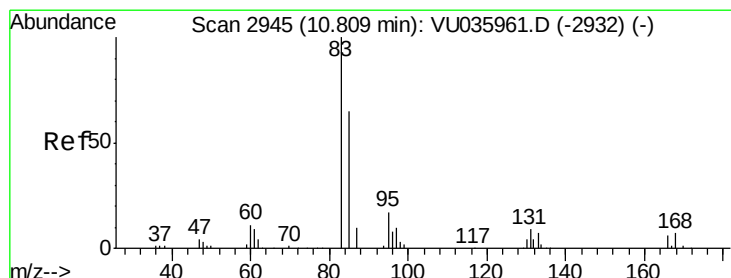
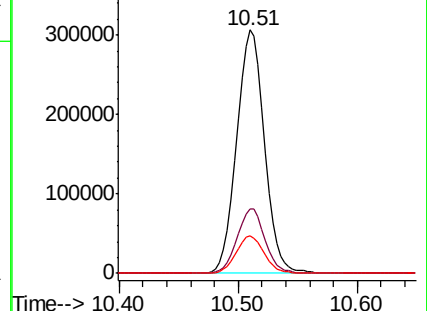
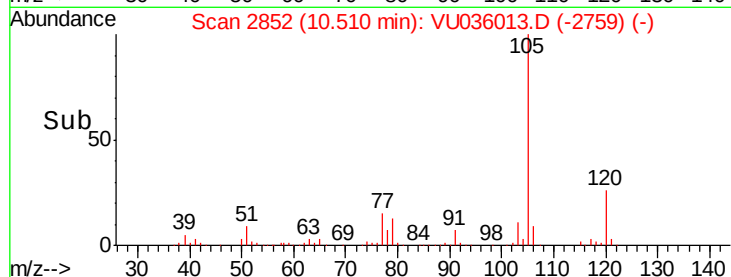
77 15.5 13.1 19.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.034 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

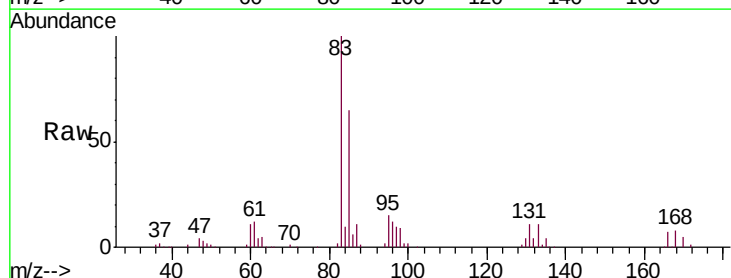
Tgt Ion: 83 Resp: 115316

Ion Ratio Lower Upper

83 100

85 65.1 44.3 82.3

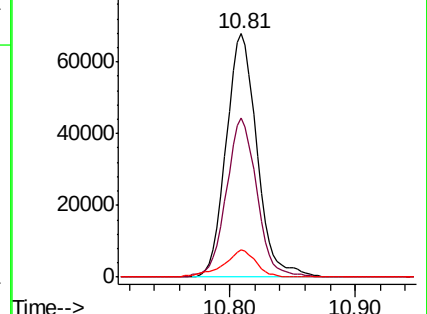
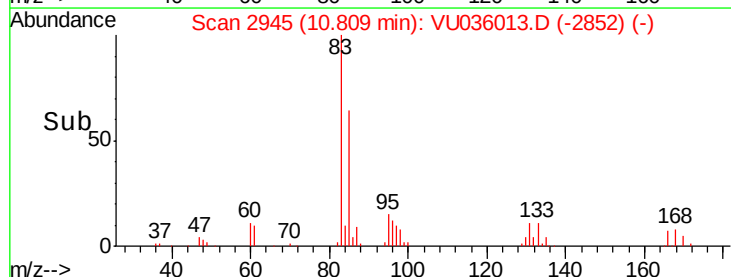
131 11.0 7.2 10.8#

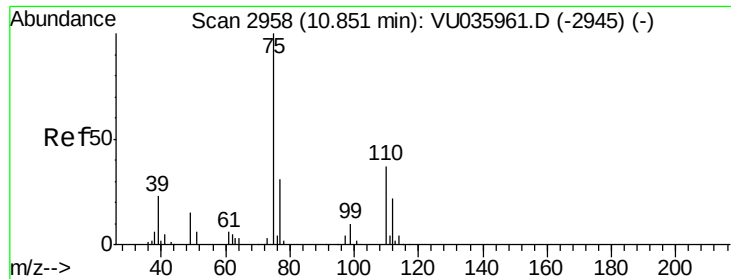


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.048 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

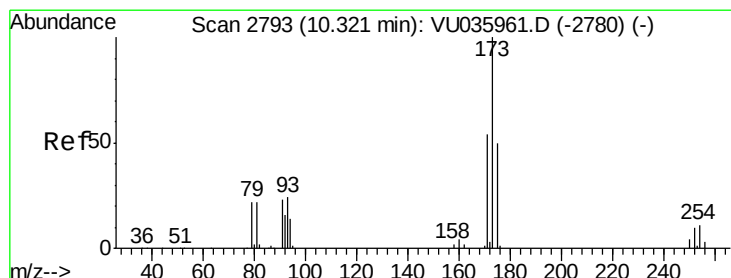
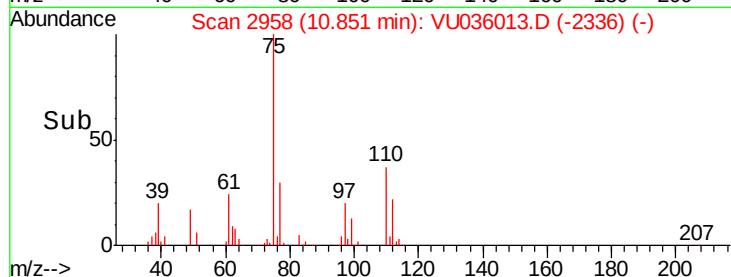
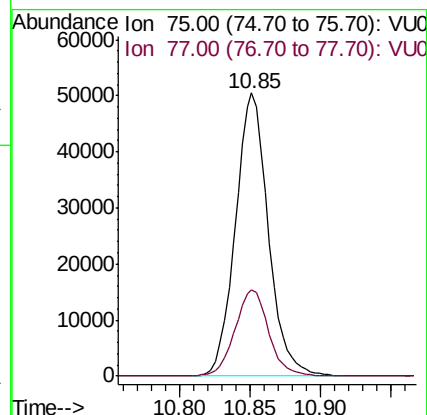
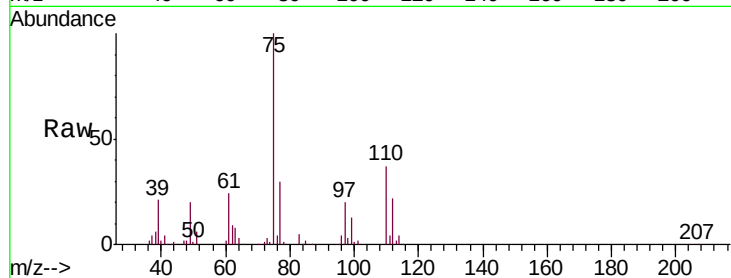
VSTD00524

Tgt Ion: 75 Resp: 82270

Ion Ratio Lower Upper

75 100

77 30.5 26.6 39.8



#61

Bromoform

Concen: 4.976 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

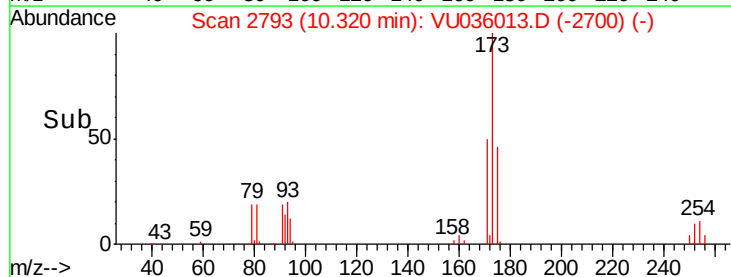
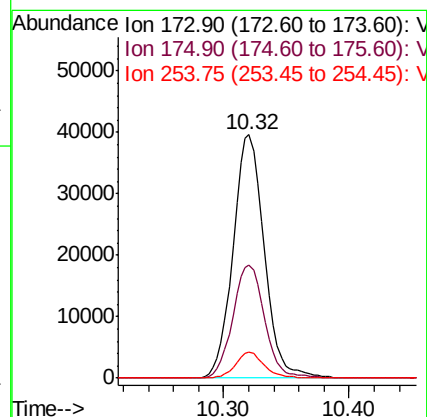
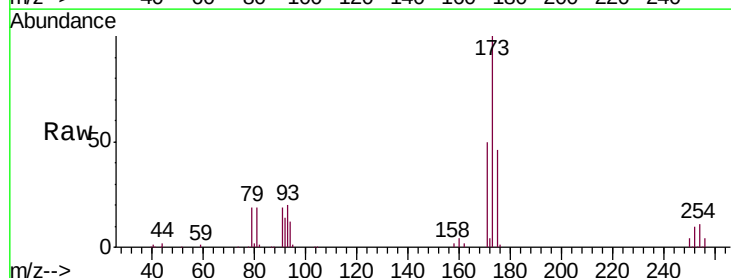
Tgt Ion: 173 Resp: 68465

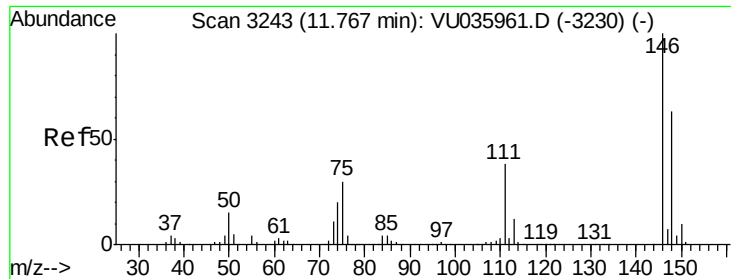
Ion Ratio Lower Upper

173 100

175 47.2 39.3 58.9

254 9.8 7.3 10.9

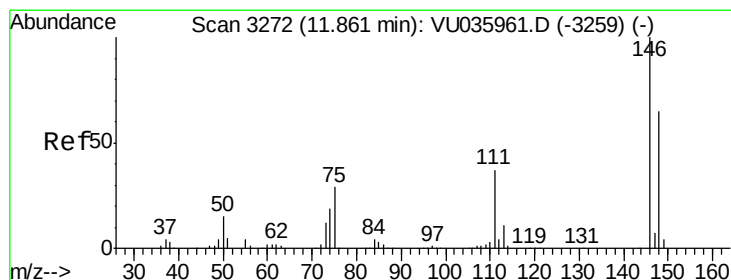
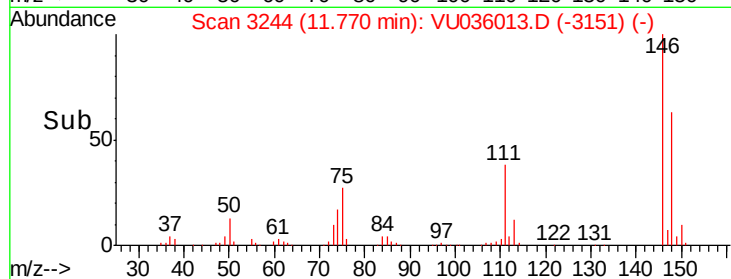
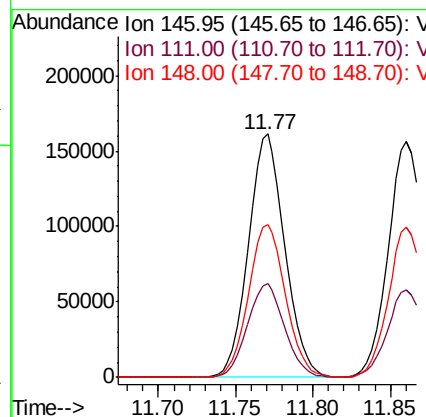
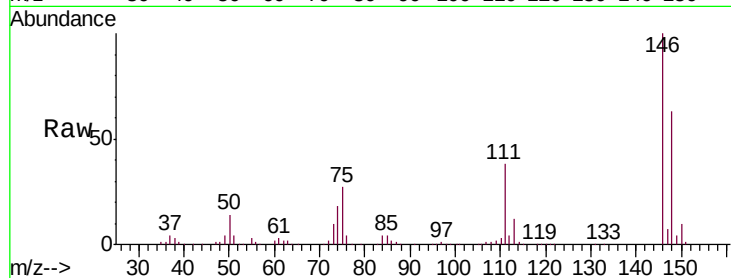




#62
 1,3-Dichlorobenzene
 Concen: 5.334 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

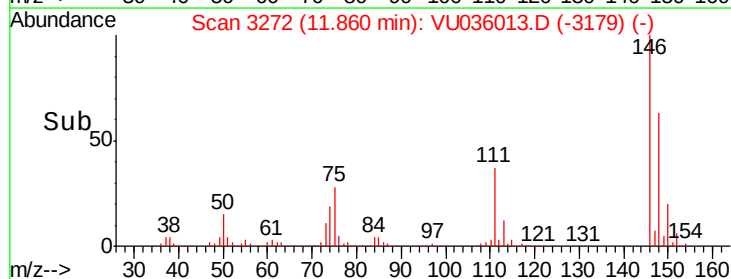
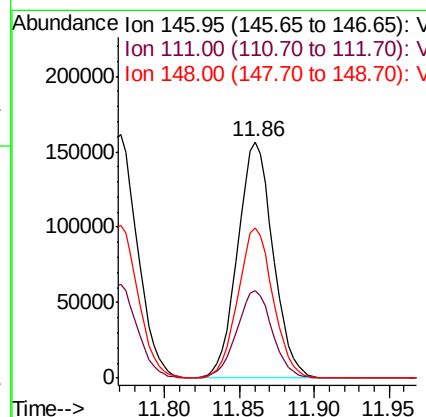
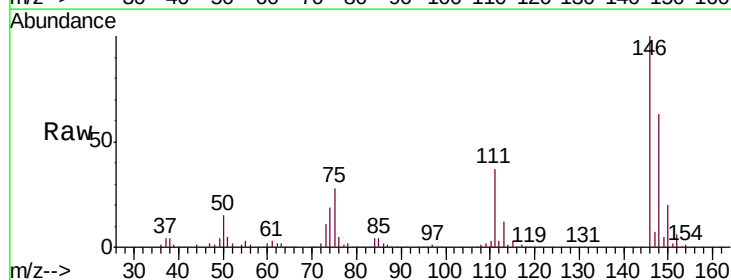
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

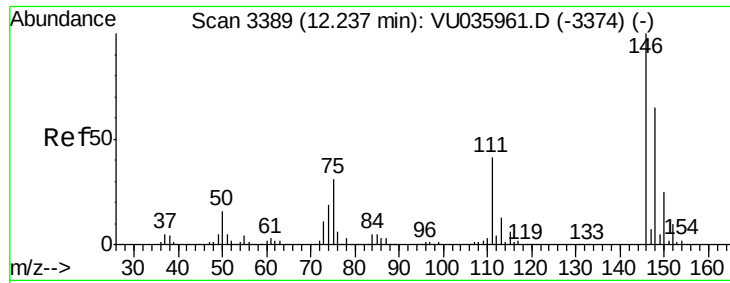
Tgt Ion:146 Resp: 264310
 Ion Ratio Lower Upper
 146 100
 111 38.4 27.6 51.4
 148 63.0 43.4 80.6



#63
 1,4-Dichlorobenzene
 Concen: 5.248 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Tgt Ion:146 Resp: 258098
 Ion Ratio Lower Upper
 146 100
 111 36.9 28.5 52.9
 148 63.5 44.4 82.5

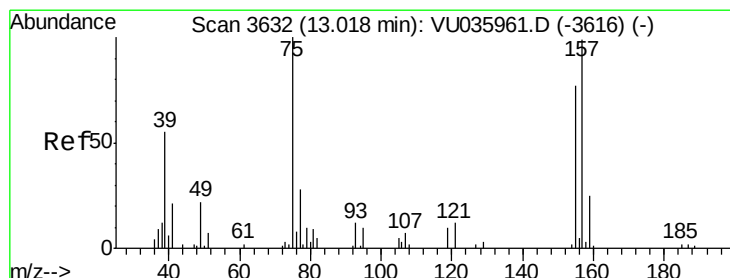
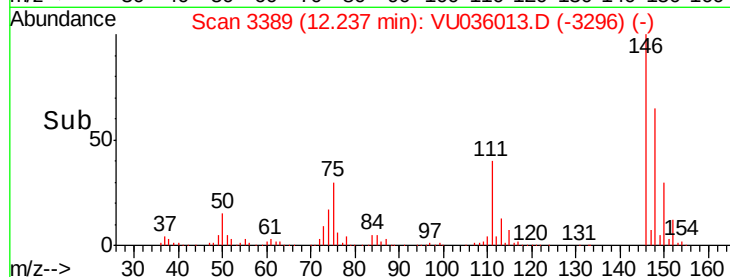
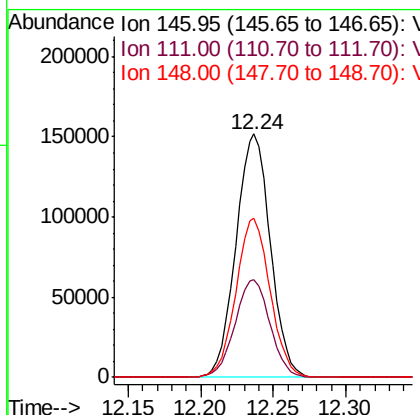
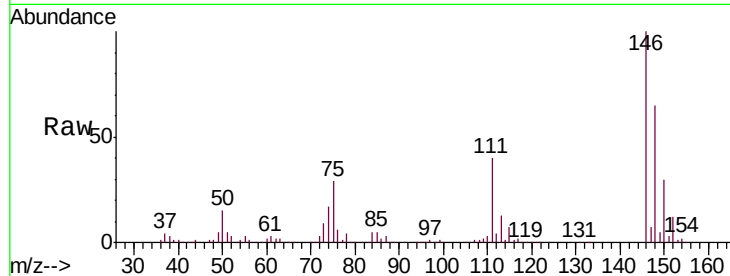




#65
 1,2-Dichlorobenzene
 Concen: 5.273 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

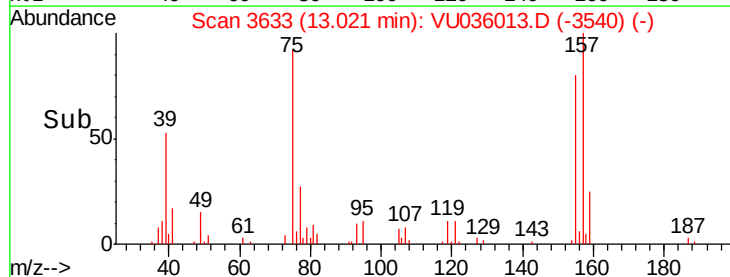
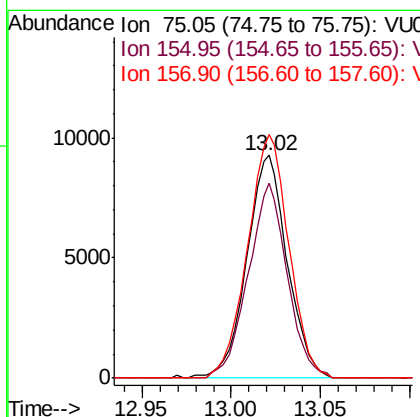
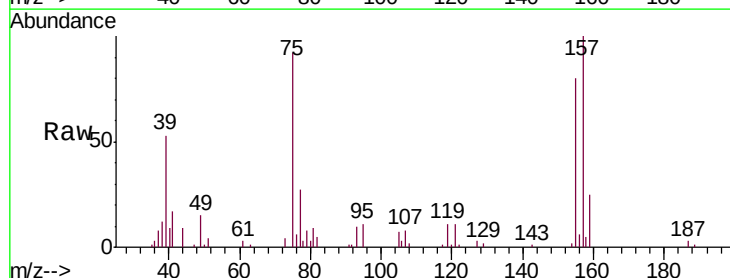
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

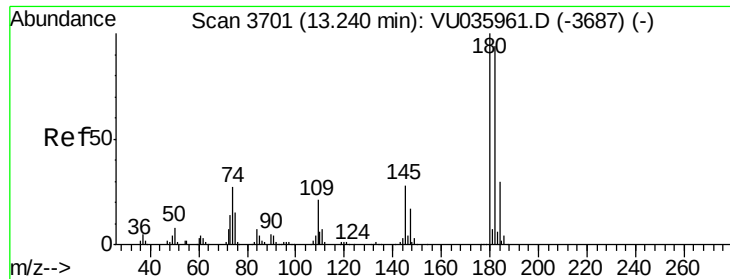
Tgt Ion: 146 Resp: 249686
 Ion Ratio Lower Upper
 146 100
 111 40.1 32.6 48.8
 148 65.4 50.9 76.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.997 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Tgt Ion: 75 Resp: 14745
 Ion Ratio Lower Upper
 75 100
 155 87.6 55.1 82.7#
 157 109.3 74.0 111.0

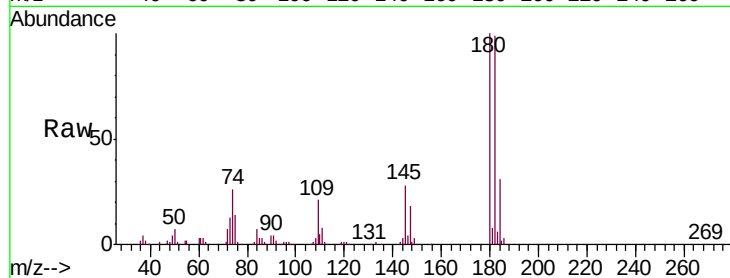




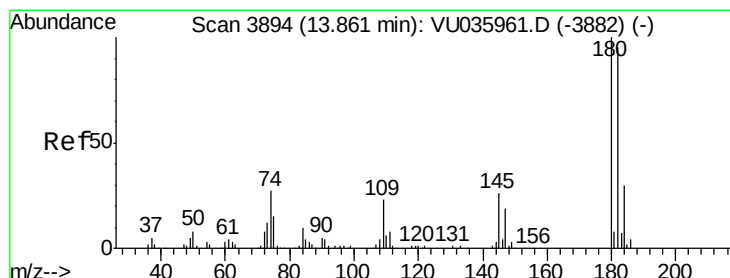
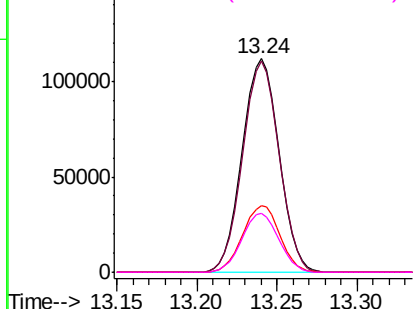
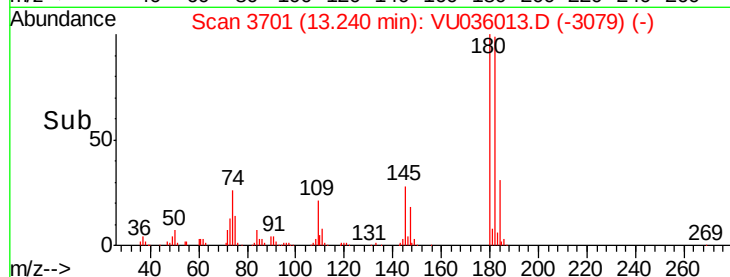
#67
 1,3,5-Trichlorobenzene
 Concen: 5.202 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

Tgt Ion:180 Resp: 175931
 Ion Ratio Lower Upper
 180 100
 182 97.4 77.2 115.8
 184 31.3 24.5 36.7
 145 27.6 23.0 34.6

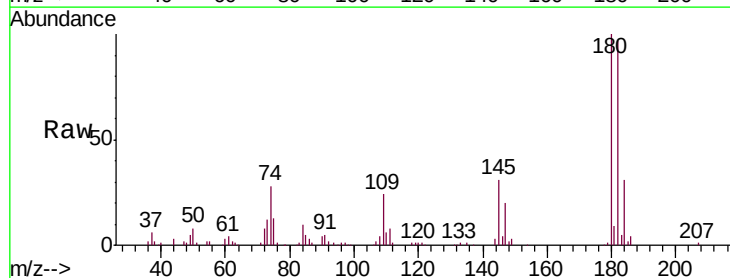


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

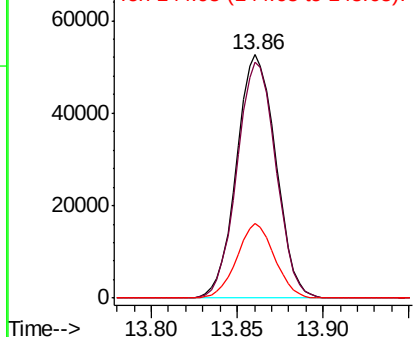
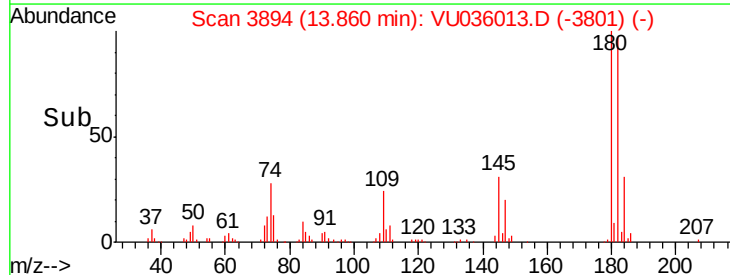


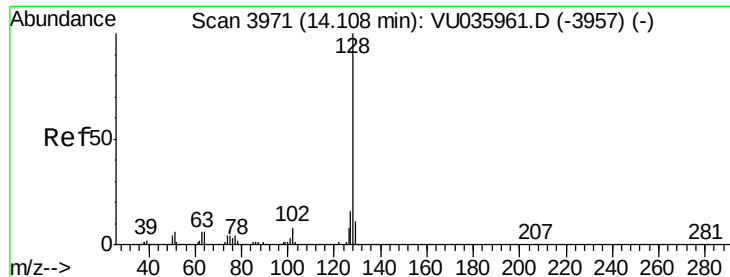
#68
 1,2,4-trichlorobenzene
 Concen: 4.620 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036013.D
 Acq: 06 Dec 2019 09:47

Tgt Ion:180 Resp: 83733
 Ion Ratio Lower Upper
 180 100
 182 96.1 74.5 111.7
 145 29.3 23.4 35.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 3.436 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

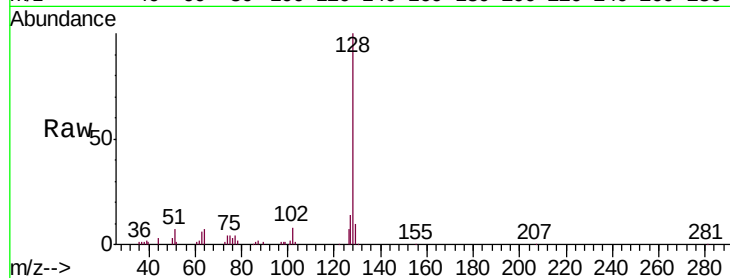
Tgt Ion:128 Resp: 70908

Ion Ratio Lower Upper

128 100

129 10.6 8.4 12.6

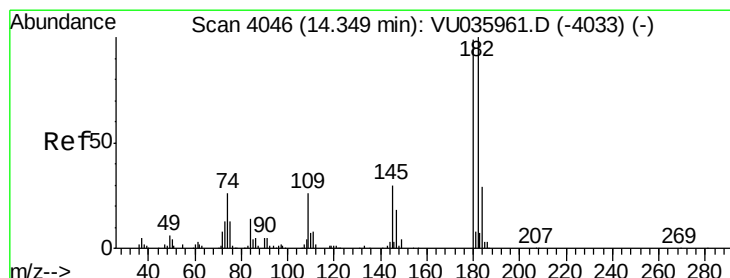
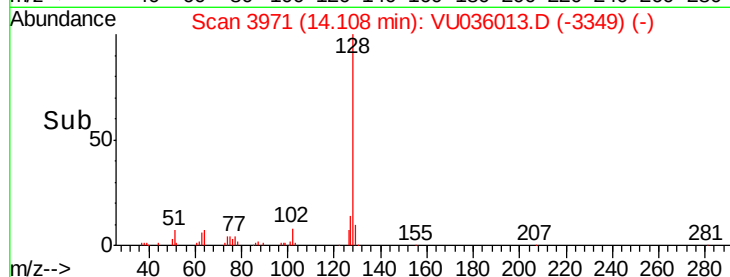
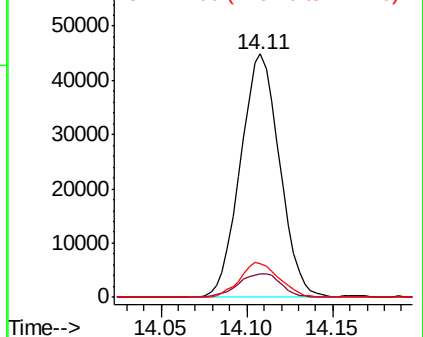
127 14.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.615 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036013.D

Acq: 06 Dec 2019 09:47

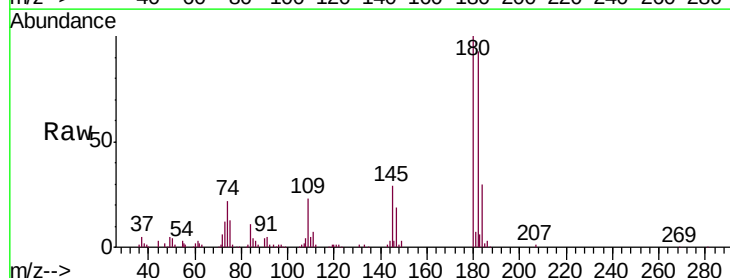
Tgt Ion:180 Resp: 82825

Ion Ratio Lower Upper

180 100

182 94.7 74.6 112.0

145 29.3 24.3 36.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

