

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100720\
 Data File : VU040553.D
 Acq On : 07 Oct 2020 18:53
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050211

Quant Time: Oct 08 01:22:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 08 01:13:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	275119	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	268943	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	145255	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	109177	46.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.42%
7) Chloroethane-d5	1.92	69	80748	44.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.72%
11) 1,1-Dichloroethene-d2	2.58	63	213104	47.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.54%
21) 2-Butanone-d5	4.65	46	231536	123.48	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	123.48%
24) Chloroform-d	5.08	84	207297	50.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.72%
26) 1,2-Dichloroethane-d4	5.72	65	138623	48.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.68%
32) Benzene-d6	5.75	84	382190	49.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.86%
36) 1,2-Dichloropropane-d6	6.70	67	128037	49.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.82%
41) Toluene-d8	7.91	98	351517	50.66	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.32%
43) trans-1,3-Dichloropropene-	8.19	79	64494	50.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.44%
47) 2-Hexanone-d5	8.64	63	153920	128.70	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	128.70%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	191380	51.65	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.30%
66) 1,2-Dichlorobenzene-d4	12.19	152	141245	47.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.56%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	128560	48.528	ug/L	97
3) Chloromethane	1.53	50	132397	47.559	ug/L	98
5) Vinyl chloride	1.61	62	130887	47.487	ug/L	99
6) Bromomethane	1.86	94	60278	41.666	ug/L	98
8) Chloroethane	1.94	64	79058	47.539	ug/L	99
9) Trichlorofluoromethane	2.15	101	173014	48.935	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	103217	48.974	ug/L	98
12) 1,1-Dichloroethene	2.59	96	97157	49.860	ug/L	92
13) Acetone	2.65	43	201075	111.660	ug/L	100
14) Carbon disulfide	2.81	76	320817	47.958	ug/L	100
15) Methyl Acetate	2.96	43	161985	55.148	ug/L	99
16) Methylene chloride	3.06	84	111379	48.197	ug/L	95
17) trans-1,2-Dichloroethene	3.37	96	100939	48.635	ug/L	98
18) Methyl tert-butyl Ether	3.38	73	323613	49.575	ug/L	99
19) 1,1-Dichloroethane	3.89	63	200192	48.363	ug/L	99
20) cis-1,2-Dichloroethene	4.69	96	107706	48.154	ug/L	94
22) 2-Butanone	4.72	43	267229	116.331	ug/L	100

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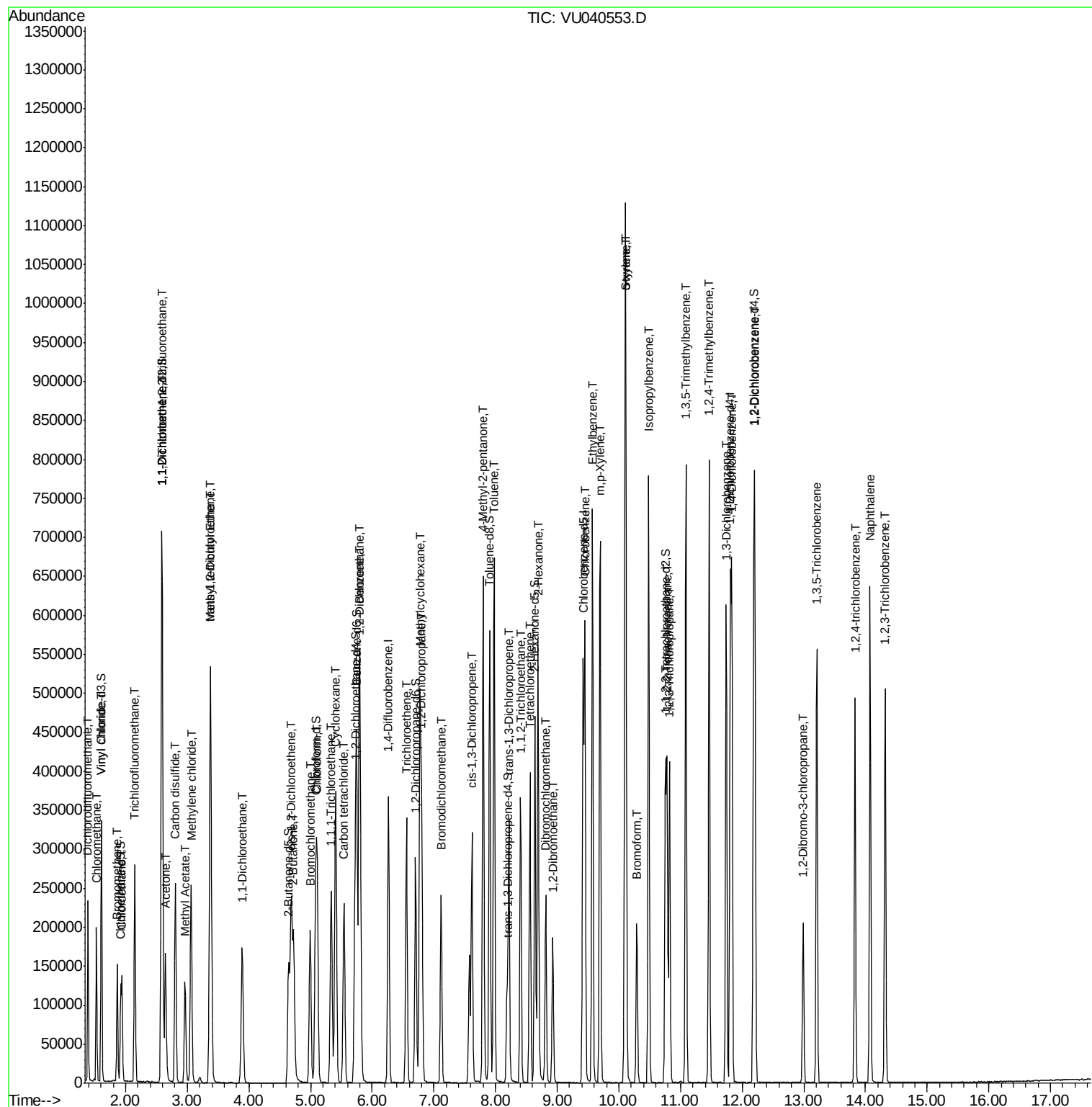
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	56393	48.381	ug/L	98
25) Chloroform	5.11	83	202700	48.024	ug/L	100
27) 1,2-Dichloroethane	5.81	62	167667	48.135	ug/L	100
29) Cyclohexane	5.41	56	181780	50.480	ug/L	98
30) 1,1,1-Trichloroethane	5.34	97	174992	50.662	ug/L	99
31) Carbon tetrachloride	5.54	117	151289	50.652	ug/L	98
33) Benzene	5.79	78	436287	50.189	ug/L	100
34) Trichloroethene	6.56	95	109493	48.895	ug/L	98
35) Methylcyclohexane	6.78	83	172232	50.588	ug/L	99
37) 1,2-Dichloropropane	6.80	63	117777	49.339	ug/L	100
38) Bromodichloromethane	7.12	83	150411	48.509	ug/L	99
39) cis-1,3-Dichloropropene	7.62	75	173110	49.481	ug/L	98
40) 4-Methyl-2-pentanone	7.80	43	431987	114.687	ug/L	100
42) Toluene	7.98	91	449575	50.657	ug/L	97
44) trans-1,3-Dichloropropene	8.22	75	175530	49.831	ug/L	99
45) 1,1,2-Trichloroethane	8.41	97	106469	49.788	ug/L	97
46) Tetrachloroethene	8.56	164	80653	49.844	ug/L	96
48) 2-Hexanone	8.69	43	363518	118.741	ug/L	99
49) Dibromochloromethane	8.82	129	117204	50.195	ug/L	99
50) 1,2-Dibromoethane	8.93	107	117047	51.633	ug/L	97
51) Chlorobenzene	9.45	112	281415	48.344	ug/L	99
52) Ethylbenzene	9.57	91	493073	50.054	ug/L	99
53) m,p-Xylene	9.70	106	185001	51.000	ug/L	96
54) o-xylene	10.10	106	175940	50.979	ug/L	98
55) Styrene	10.11	104	316264	52.027	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.78	83	192623	50.937	ug/L	99
59) Bromoform	10.29	173	85255	47.887	ug/L	100
60) 1,2,3-Trichloropropane	10.82	75	161301	48.887	ug/L	99
61) Isopropylbenzene	10.48	105	469263	48.106	ug/L	100
62) 1,3,5-Trimethylbenzene	11.09	105	395641	49.365	ug/L	99
63) 1,2,4-Trimethylbenzene	11.47	105	406521	50.012	ug/L	100
64) 1,3-Dichlorobenzene	11.74	146	227053	47.736	ug/L	98
65) 1,4-Dichlorobenzene	11.83	146	234815	47.003	ug/L	99
67) 1,2-Dichlorobenzene	12.21	146	229199	48.102	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.99	75	51840	55.921	ug/L	96
69) 1,3,5-Trichlorobenzene	13.21	180	156175	50.113	ug/L	99
70) 1,2,4-trichlorobenzene	13.83	180	136879	50.674	ug/L	99
71) Naphthalene	14.08	128	453001	54.257	ug/L	99
72) 1,2,3-Trichlorobenzene	14.32	180	140205	52.293	ug/L	98

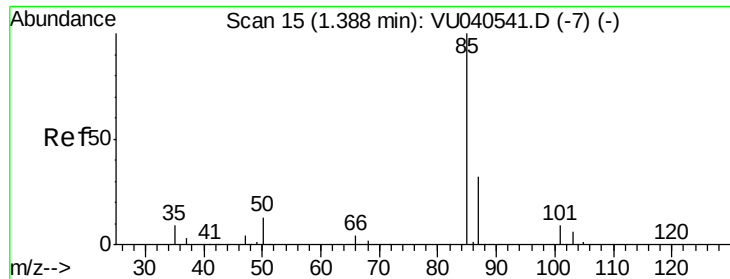
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.528 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

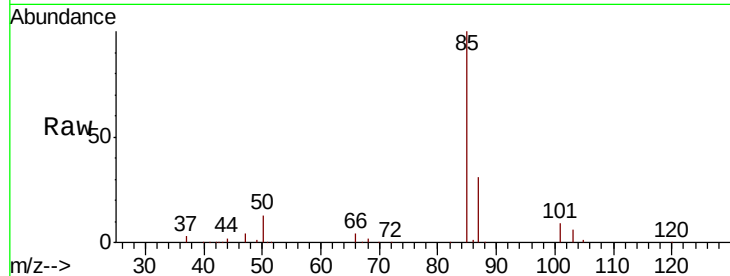
VSTD050211

Tot Ion: 85 Resp: 128560

Ion Ratio Lower Upper

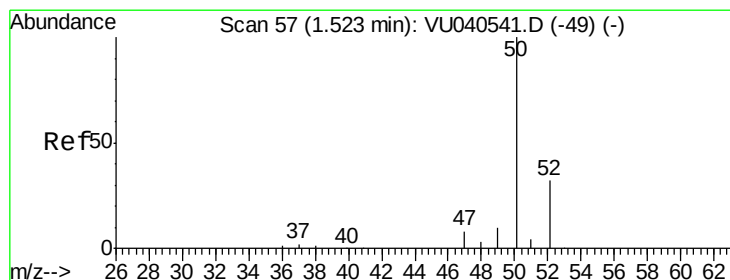
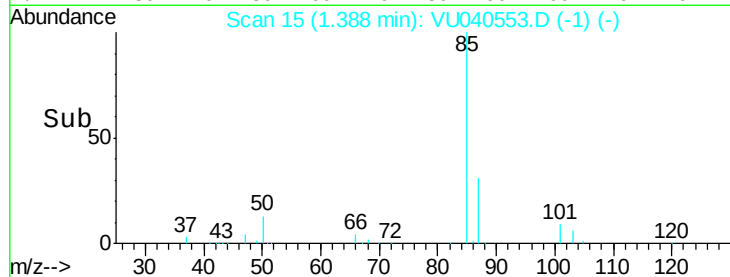
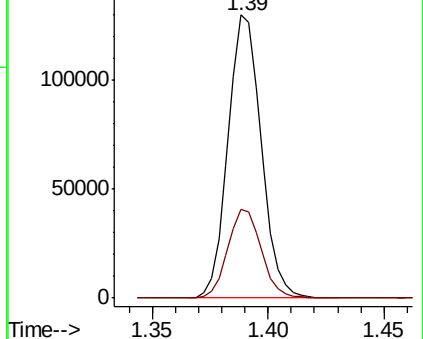
85 100

87 31.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU040553.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU040553.D (-1) (-)



#3

Chloromethane

Concen: 47.559 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040553.D

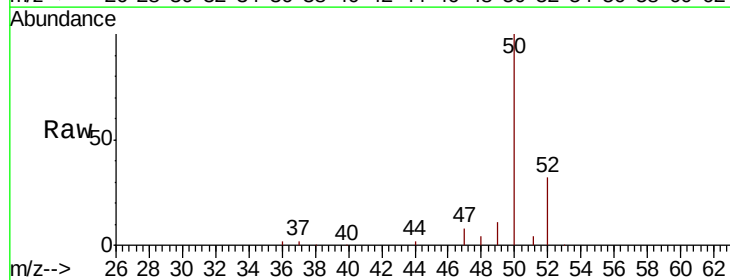
Acq: 07 Oct 2020 18:53

Tgt Ion: 50 Resp: 132397

Ion Ratio Lower Upper

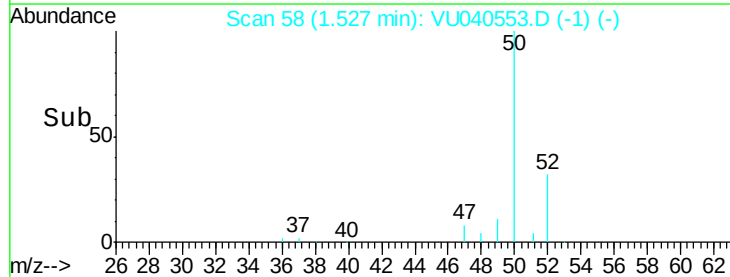
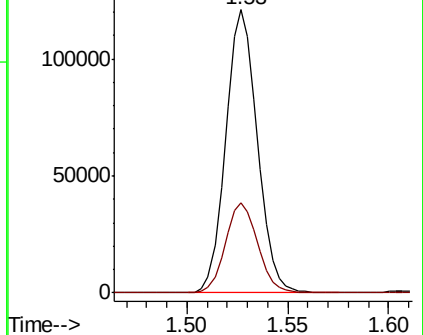
50 100

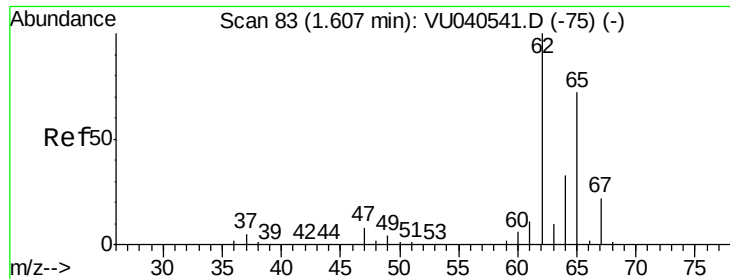
52 31.7 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU040553.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU040553.D (-1) (-)





#5

Vinyl chloride

Concen: 47.487 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

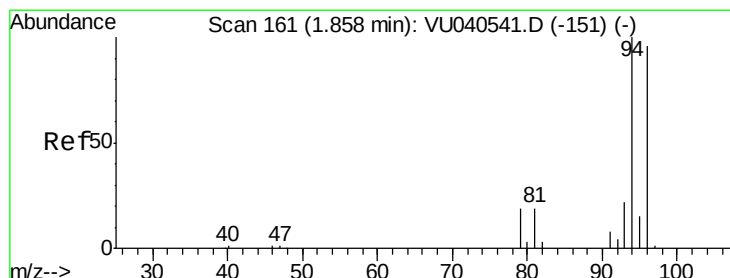
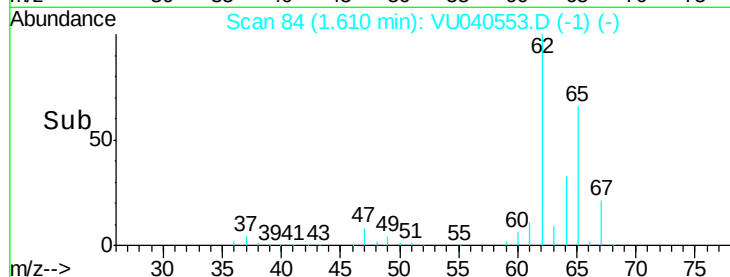
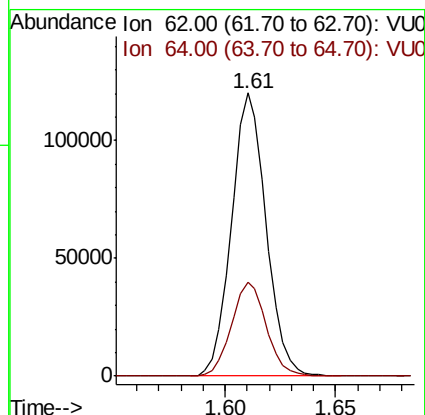
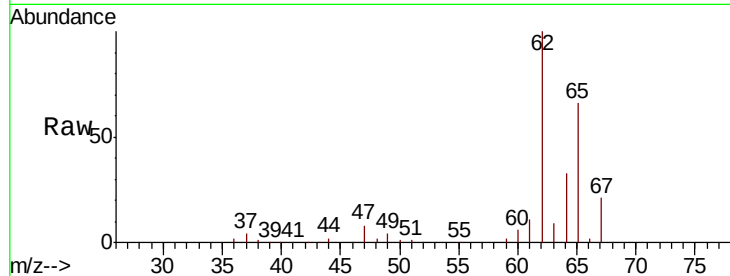
VSTD050211

Tot Ion: 62 Resp: 130887

Ion Ratio Lower Upper

62 100

64 33.2 23.4 43.6



#6

Bromomethane

Concen: 41.666 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.01 min

Lab File: VU040553.D

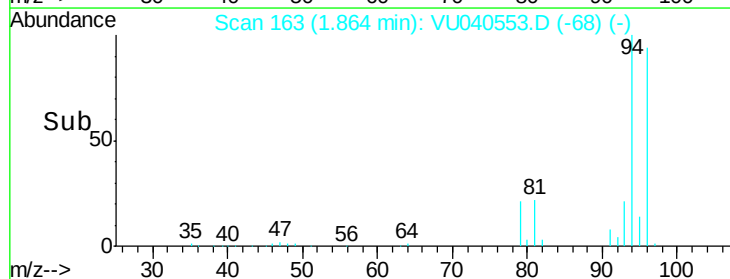
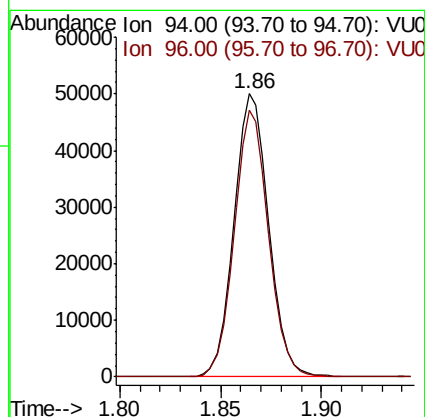
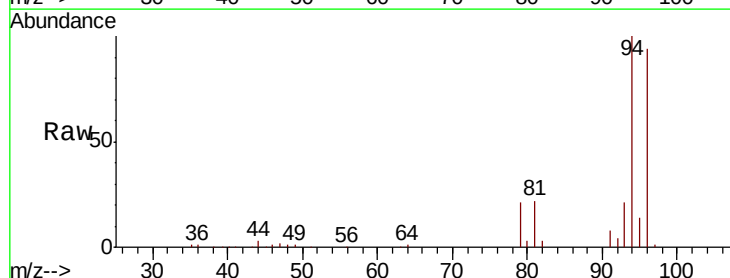
Acq: 07 Oct 2020 18:53

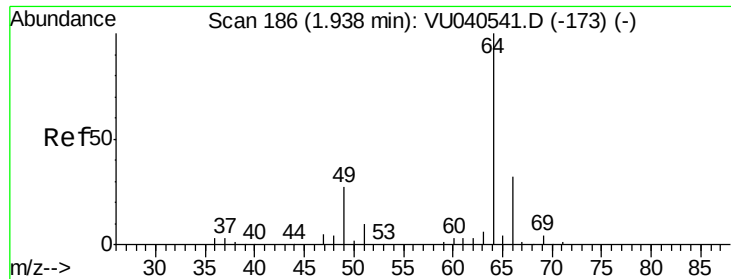
Tgt Ion: 94 Resp: 60278

Ion Ratio Lower Upper

94 100

96 94.2 64.4 119.6





#8

Chloroethane

Concen: 47.539 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

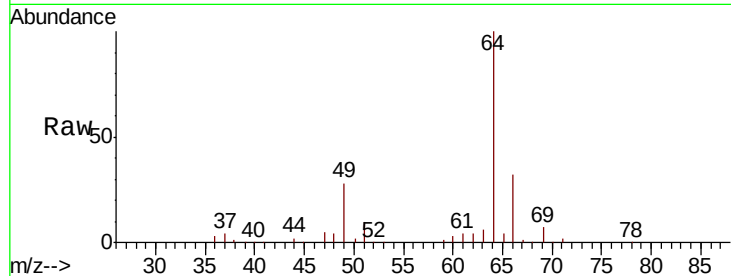
VSTD050211

Tot Ion: 64 Resp: 79058

Ion Ratio Lower Upper

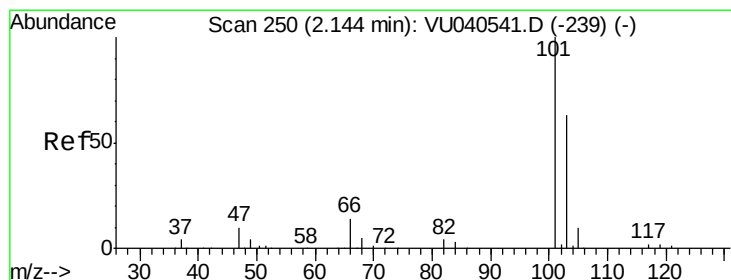
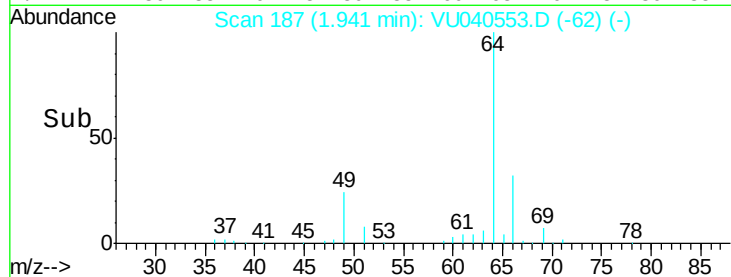
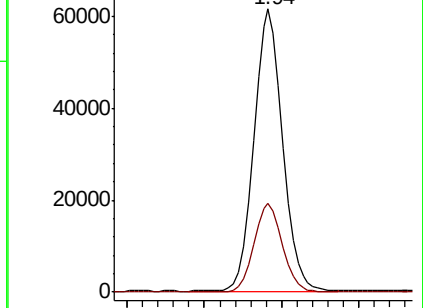
64 100

66 31.5 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VU040553.D (-173) (-)

Ion 66.00 (65.70 to 66.70): VU040553.D (-173) (-)



#9

Trichlorofluoromethane

Concen: 48.935 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU040553.D

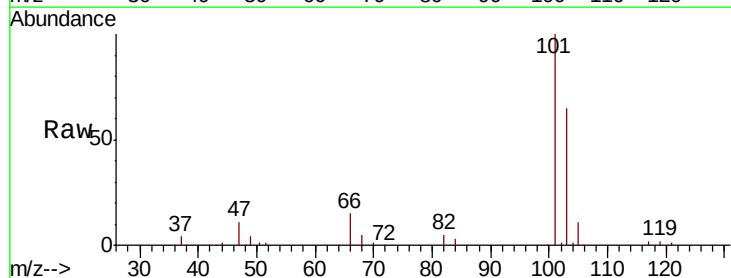
Acq: 07 Oct 2020 18:53

Tgt Ion:101 Resp: 173014

Ion Ratio Lower Upper

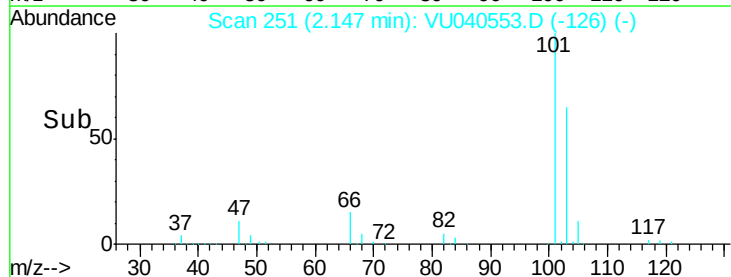
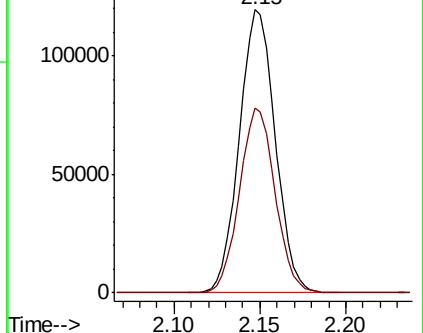
101 100

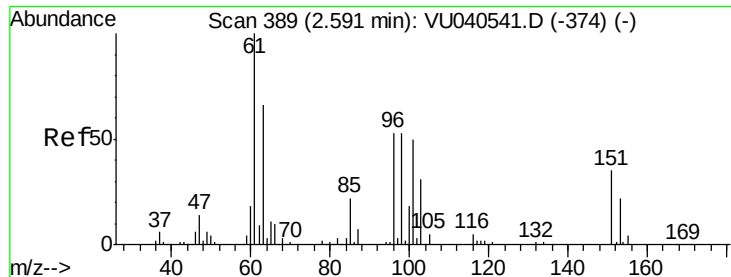
103 64.7 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VU040553.D (-239) (-)

Ion 103.00 (102.70 to 103.70): VU040553.D (-239) (-)





#10

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

Concen: 48.974 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

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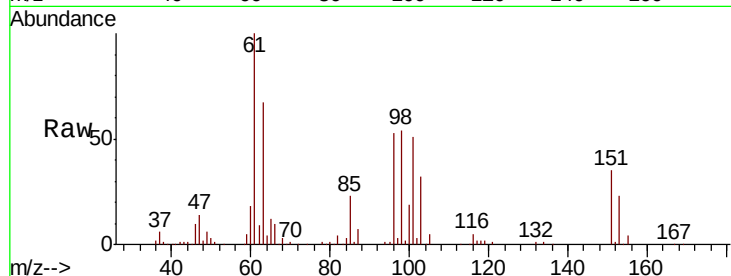
Tot Ion:101 Resp: 103217

Ion Ratio Lower Upper

101 100

85 45.7 35.4 53.2

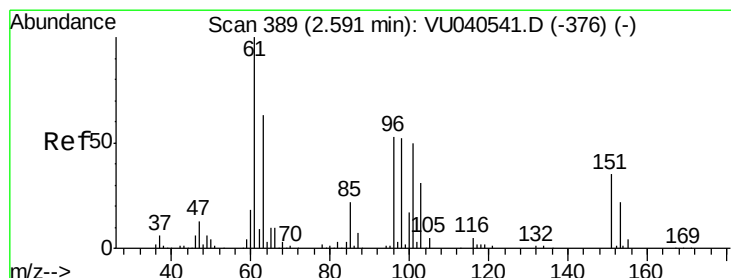
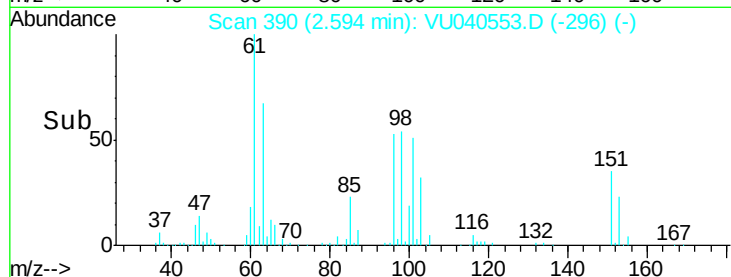
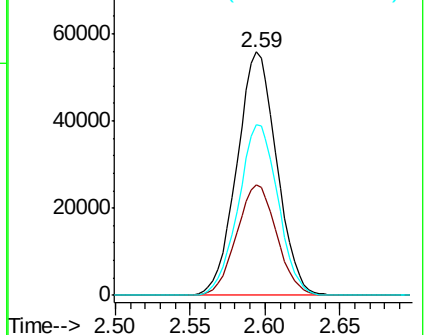
151 69.9 54.8 82.2



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: 49.860 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

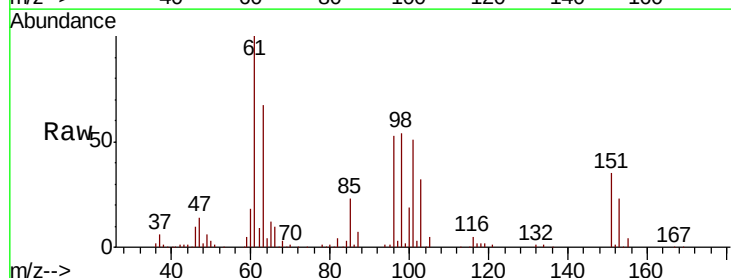
Tgt Ion: 96 Resp: 97157

Ion Ratio Lower Upper

96 100

61 189.5 135.0 250.8

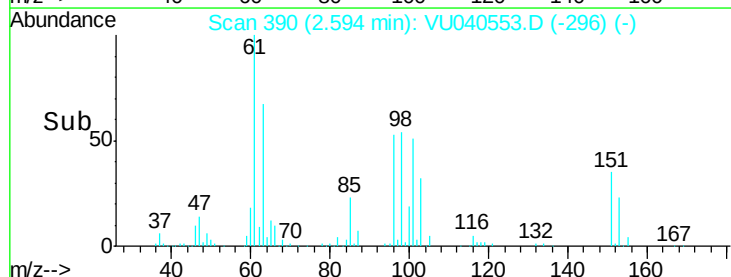
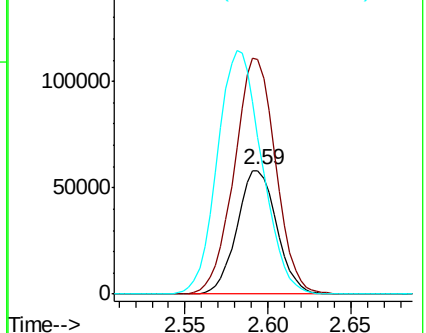
63 126.0 101.4 188.2

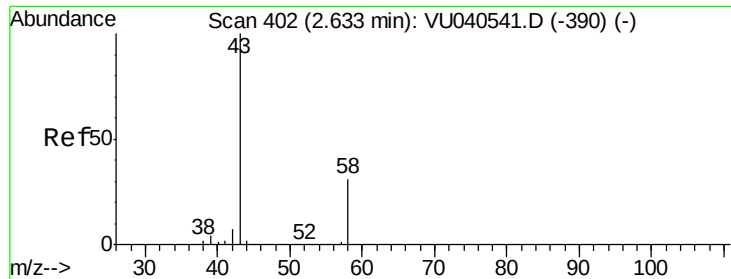


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 111.660 ug/L

RT: 2.65 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU040553.D

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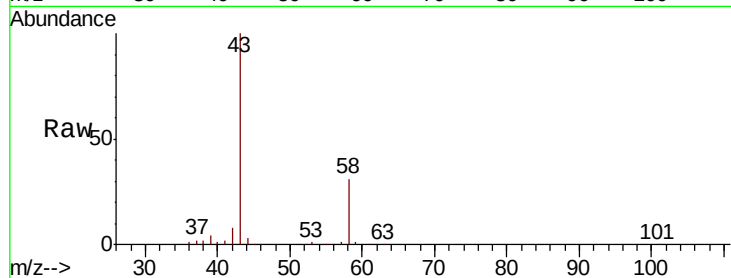
VSTD050211

Tot Ion: 43 Resp: 201075

Ion Ratio Lower Upper

43 100

58 30.2 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040553.D (-309) (-)

Ion 58.00 (57.70 to 58.70): VU040553.D (-309) (-)

2.65

120000

100000

80000

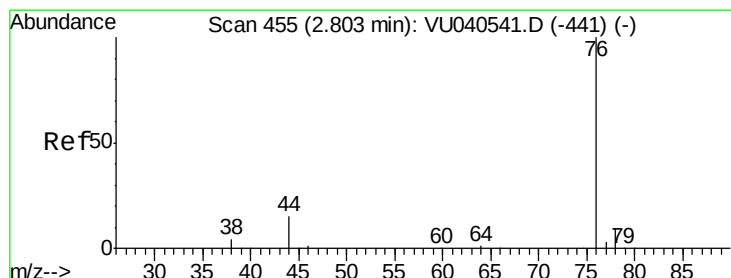
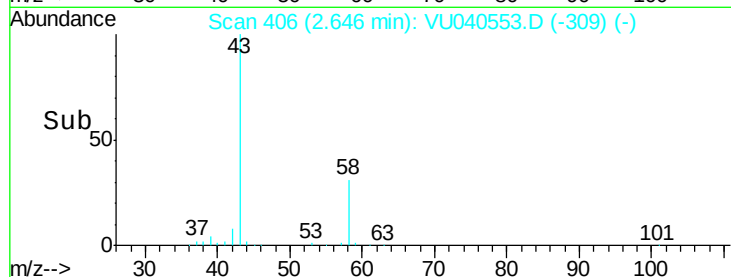
60000

40000

20000

0

Time--> 2.55 2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 47.958 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040553.D

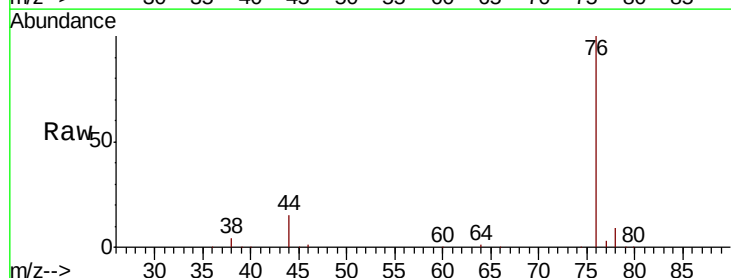
Acq: 07 Oct 2020 18:53

Tgt Ion: 76 Resp: 320817

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU040553.D (-362) (-)

Ion 78.00 (77.70 to 78.70): VU040553.D (-362) (-)

2.81

200000

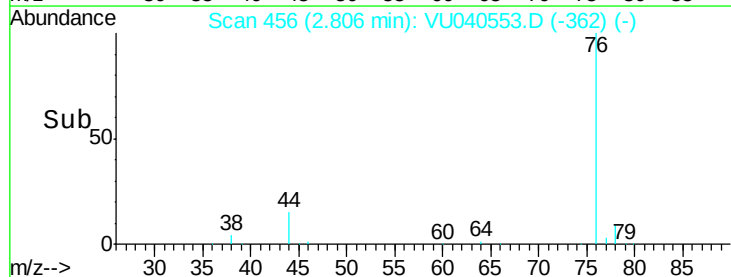
150000

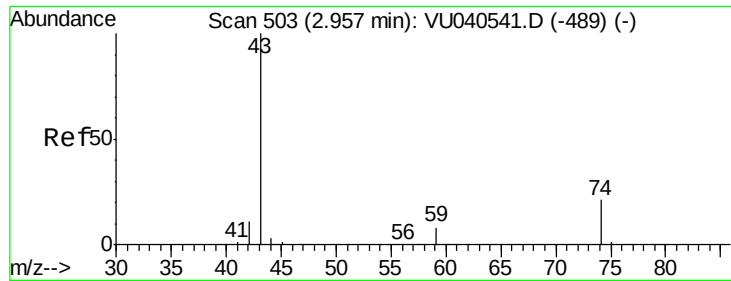
100000

50000

0

Time--> 2.75 2.80 2.85 2.90

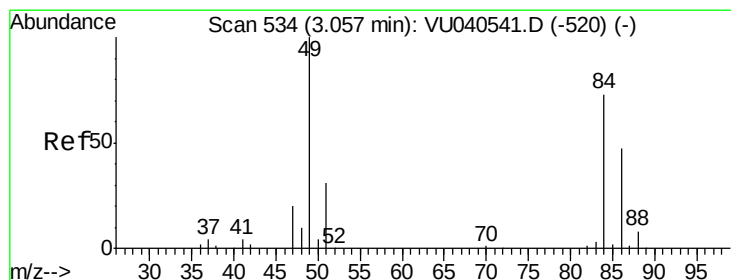
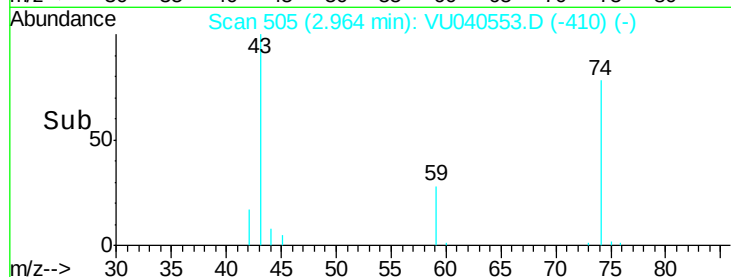
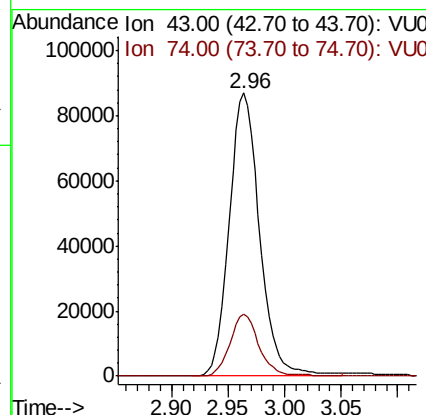
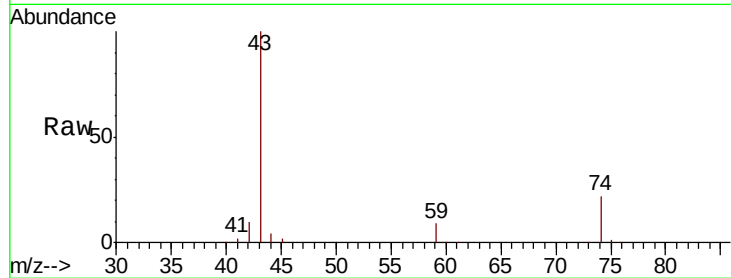




#15
Methvl Acetate
Concen: 55.148 ug/L
RT: 2.96 min Scan# 505
Delta R.T. 0.01 min
Lab File: VU040553.D
Acq: 07 Oct 2020 18:53

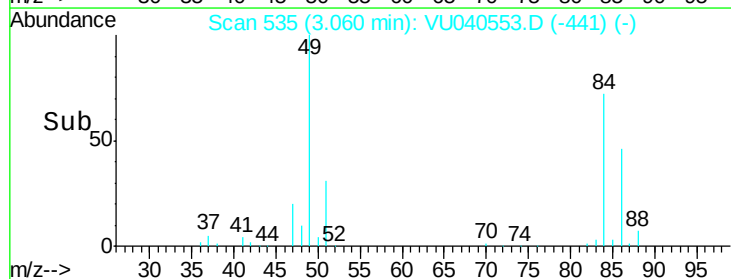
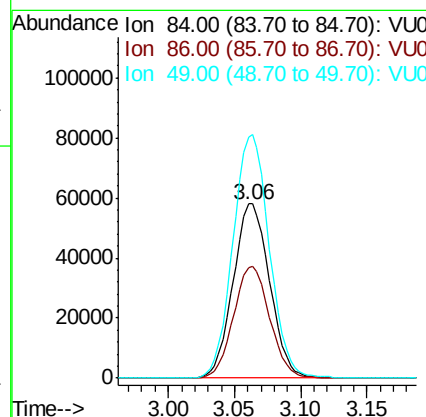
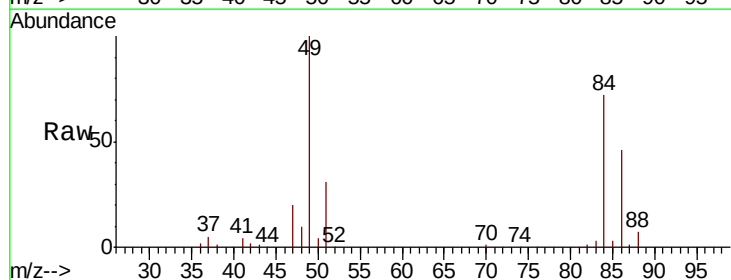
Instrument :
MSVOA_U
ClientSampleId :
VSTD050211

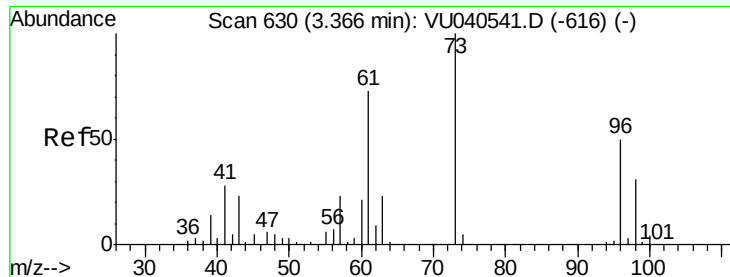
Tot Ion: 43 Resp: 161985
Ion Ratio Lower Upper
43 100
74 20.8 16.4 24.6



#16
Methylene chloride
Concen: 48.197 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040553.D
Acq: 07 Oct 2020 18:53

Tgt Ion: 84 Resp: 111379
Ion Ratio Lower Upper
84 100
86 63.6 45.4 84.4
49 138.6 102.9 191.1





#17

trans-1,2-Dichloroethene

Concen: 48.635 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD050211

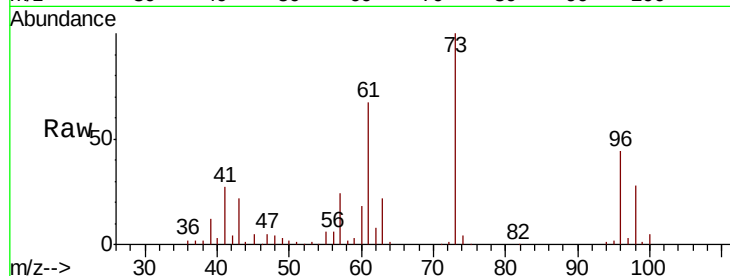
Tot Ion: 96 Resp: 100939

Ion Ratio Lower Upper

96 100

61 154.4 109.6 203.6

98 65.1 43.3 80.3

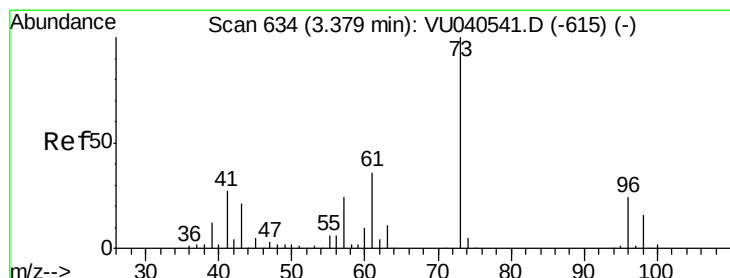
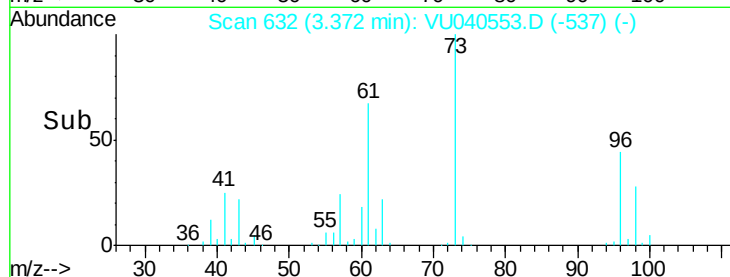
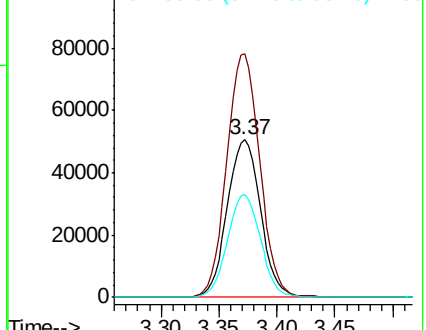


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 49.575 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

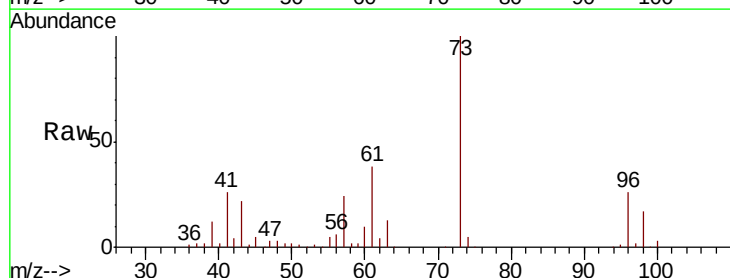
Tgt Ion: 73 Resp: 323613

Ion Ratio Lower Upper

73 100

43 22.1 18.2 27.2

57 23.4 18.5 27.7

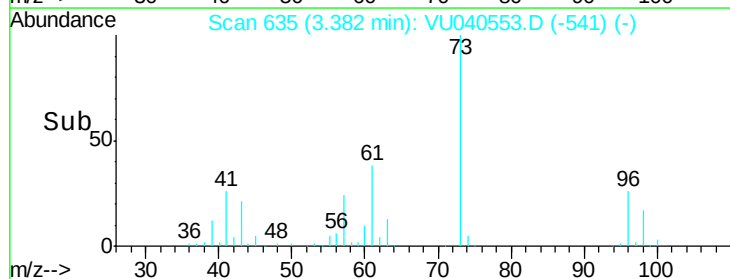
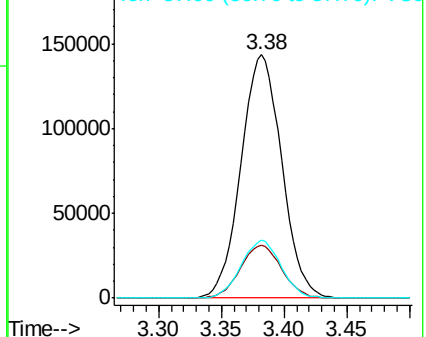


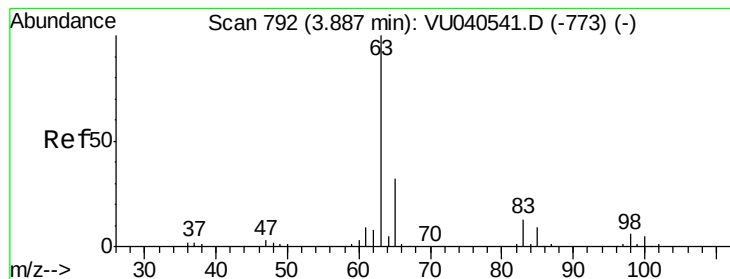
Abundance

Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 48.363 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD050211

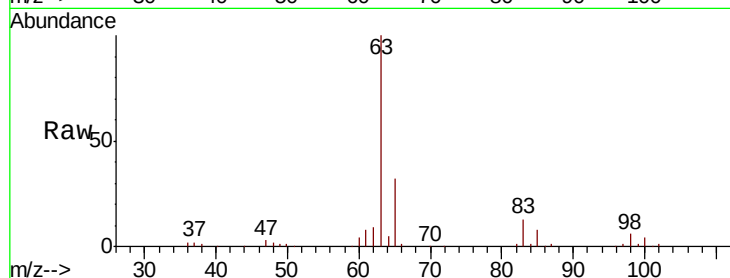
Tot Ion: 63 Resp: 200192

Ion Ratio Lower Upper

63 100

65 31.5 22.6 42.0

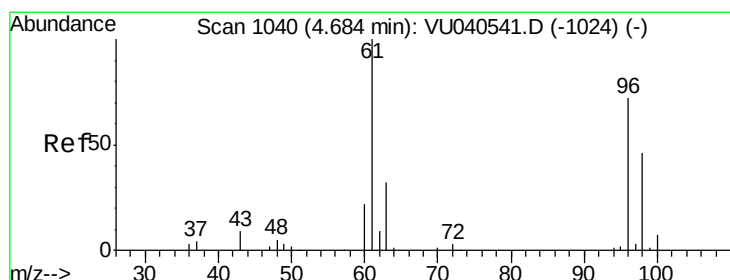
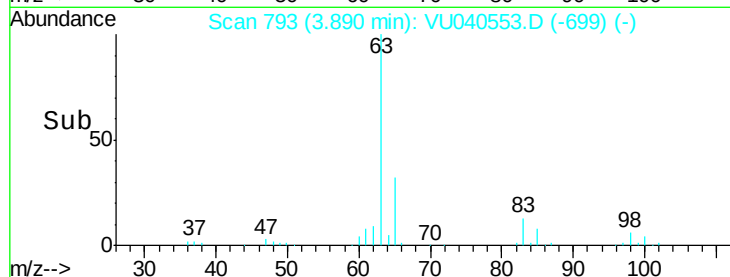
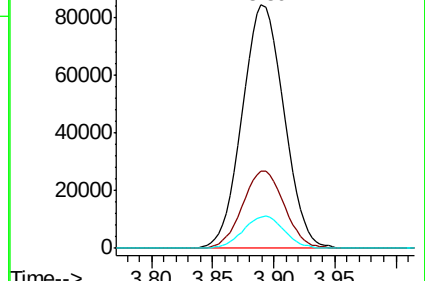
83 12.9 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU040553.D (-699) (-)

Ion 65.00 (64.70 to 65.70): VU040553.D (-699) (-)

Ion 83.00 (82.70 to 83.70): VU040553.D (-699) (-)



#20

cis-1,2-Dichloroethene

Concen: 48.154 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

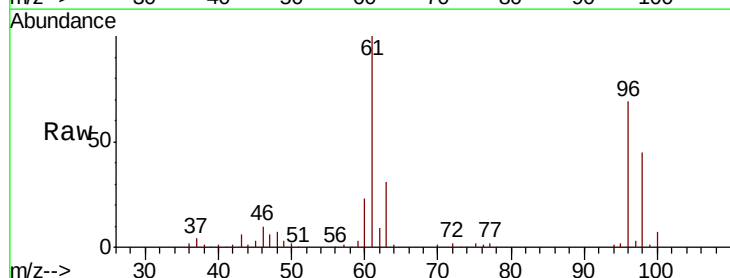
Tgt Ion: 96 Resp: 107706

Ion Ratio Lower Upper

96 100

61 144.2 95.7 177.7

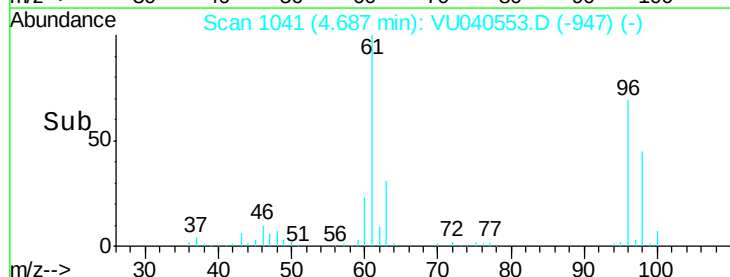
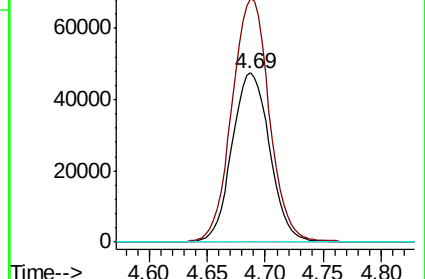
68 0.0 0.0 0.0

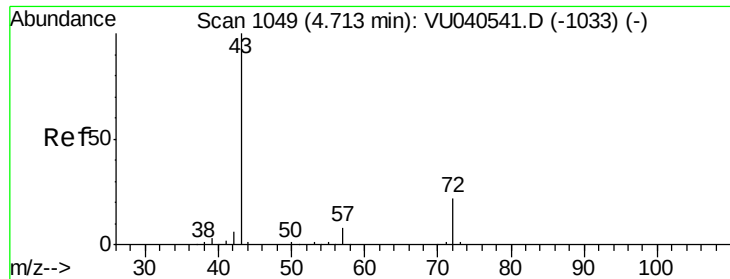


Abundance Ion 96.00 (95.70 to 96.70): VU040553.D (-947) (-)

Ion 61.00 (60.70 to 61.70): VU040553.D (-947) (-)

Ion 68.00 (67.70 to 68.70): VU040553.D (-947) (-)





#22

2-Butanone

Concen: 116.331 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

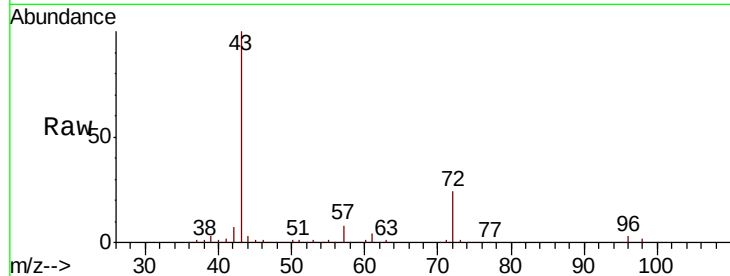
VSTD050211

Tot Ion: 43 Resp: 267229

Ion Ratio Lower Upper

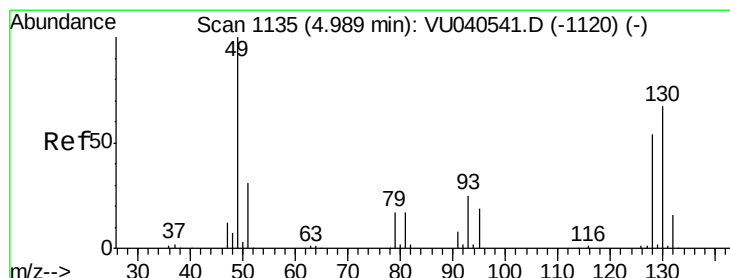
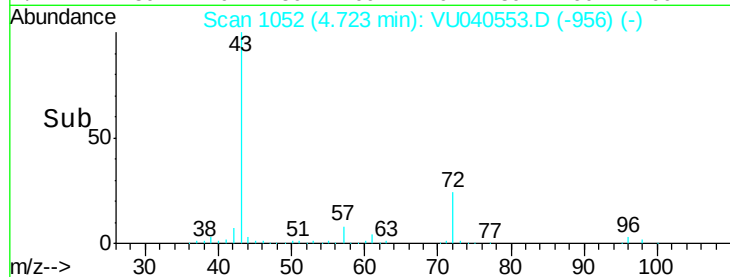
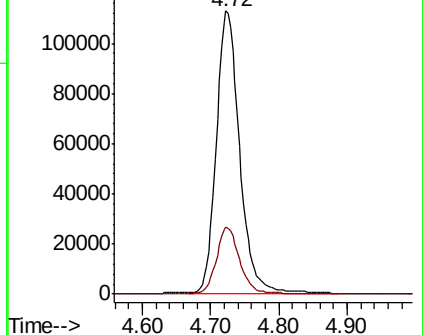
43 100

72 23.8 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VU040553.D (-956) (-)

Ion 72.00 (71.70 to 72.70): VU040553.D (-956) (-)



#23

Bromochloromethane

Concen: 48.381 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Tgt Ion:128 Resp: 56393

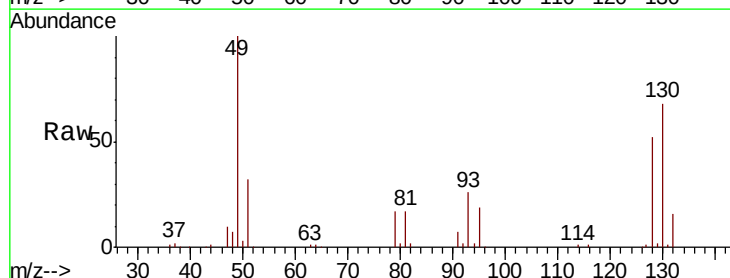
Ion Ratio Lower Upper

128 100

49 193.9 133.1 247.3

130 131.7 90.5 168.1

51 61.7 48.4 72.6

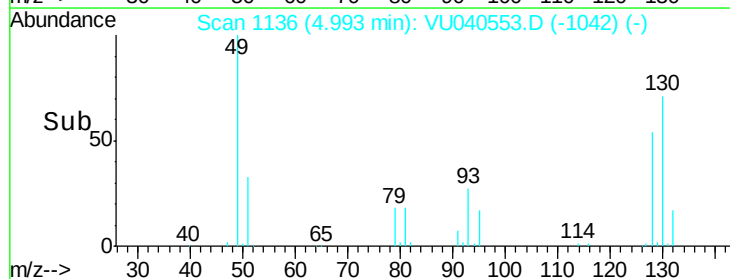
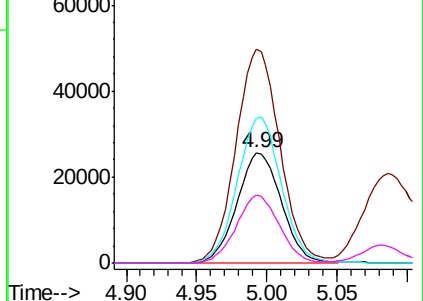


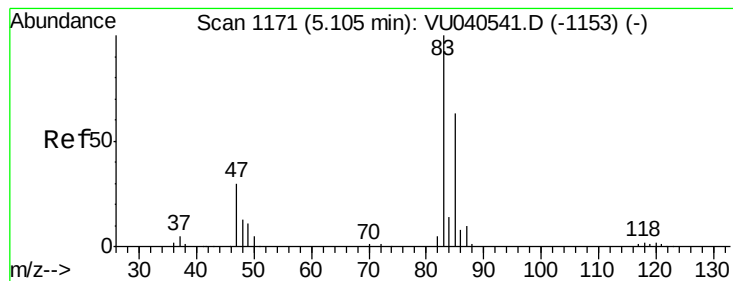
Abundance Ion 128.00 (127.70 to 128.70): VU040553.D (-1042) (-)

Ion 49.00 (48.70 to 49.70): VU040553.D (-1042) (-)

Ion 130.00 (129.70 to 130.70): VU040553.D (-1042) (-)

Ion 51.00 (50.70 to 51.70): VU040553.D (-1042) (-)





#25

Chloroform

Concen: 48.024 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

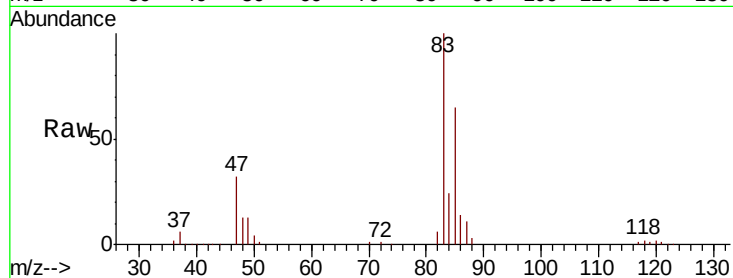
VSTD050211

Tot Ion: 83 Resp: 202700

Ion Ratio Lower Upper

83 100

85 65.4 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

5.11

100000

80000

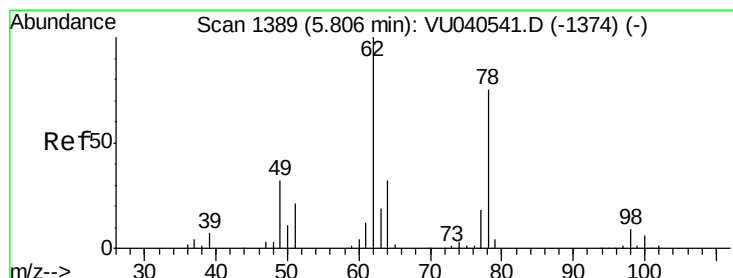
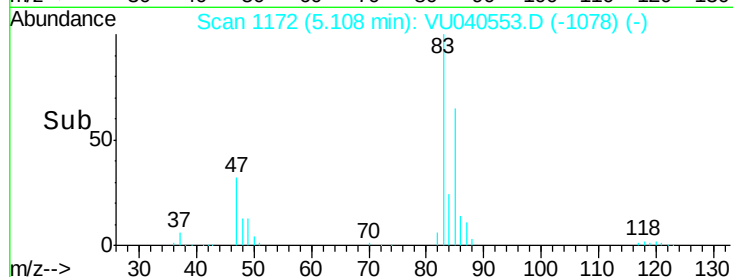
60000

40000

20000

0

Time--> 5.00 5.05 5.10 5.15 5.20



#27

1,2-Dichloroethane

Concen: 48.135 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU040553.D

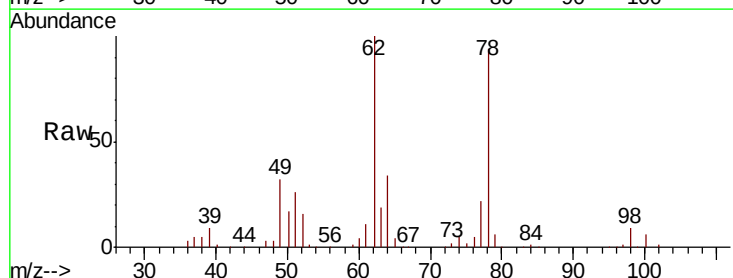
Acq: 07 Oct 2020 18:53

Tgt Ion: 62 Resp: 167667

Ion Ratio Lower Upper

62 100

98 8.9 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

5.81

80000

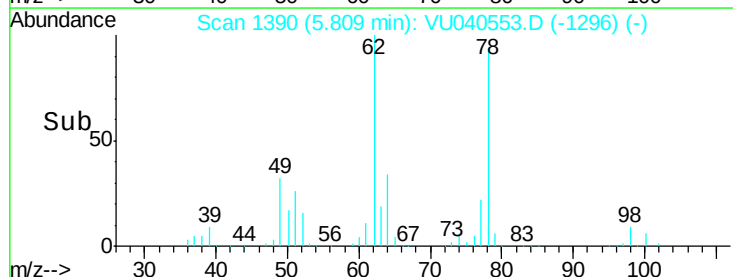
60000

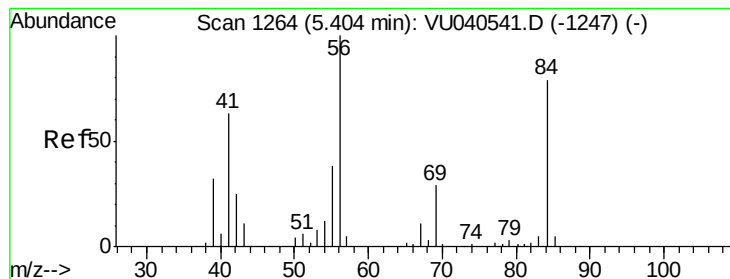
40000

20000

0

Time--> 5.70 5.80 5.90





#29

Cyclohexane

Concen: 50.480 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD050211

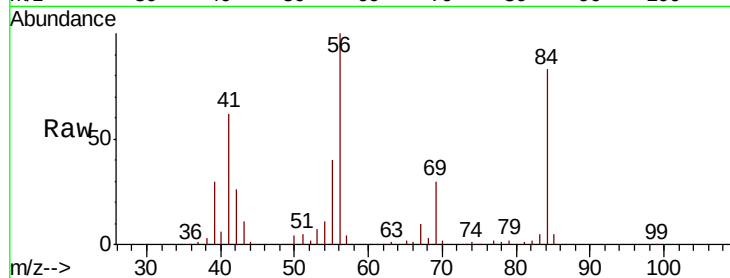
Tot Ion: 56 Resp: 181780

Ion Ratio Lower Upper

56 100

69 29.2 22.6 34.0

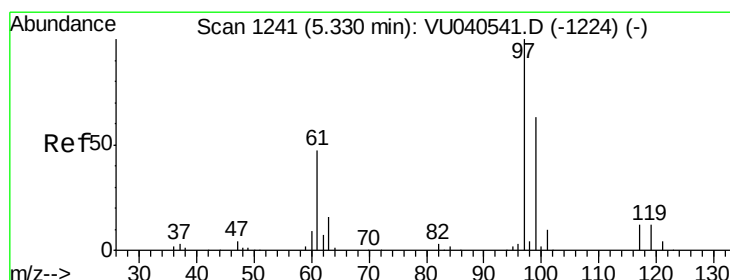
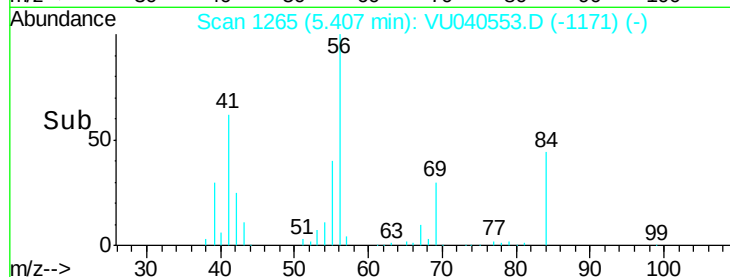
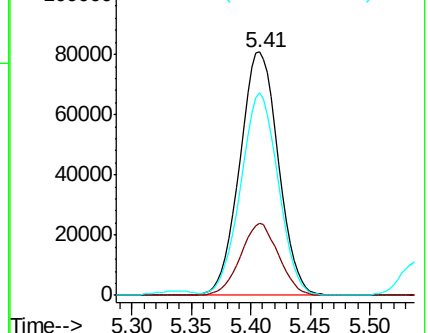
84 81.0 63.1 94.7



Abundance Ion 56.00 (55.70 to 56.70): VU040553.D (-1171) (-)

Ion 69.00 (68.70 to 69.70): VU040553.D (-1171) (-)

Ion 84.00 (83.70 to 84.70): VU040553.D (-1171) (-)



#30

1,1,1-Trichloroethane

Concen: 50.662 ug/L

RT: 5.34 min Scan# 1243

Delta R.T. 0.01 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

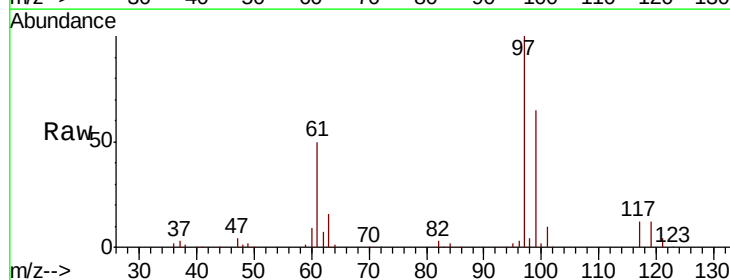
Tgt Ion: 97 Resp: 174992

Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.6

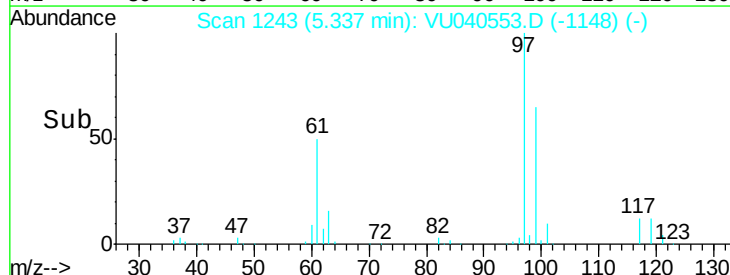
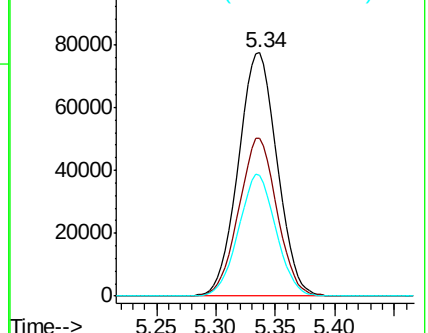
61 48.3 39.4 59.2

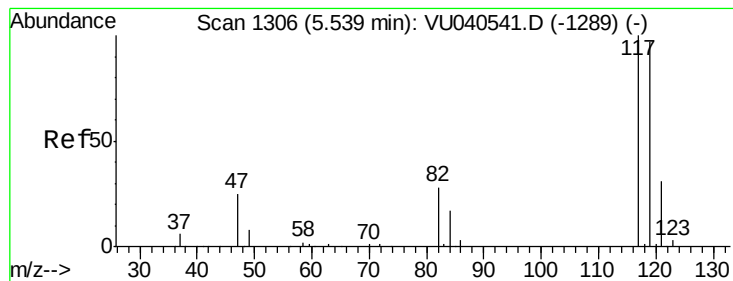


Abundance Ion 97.00 (96.70 to 97.70): VU040553.D (-1148) (-)

Ion 99.00 (98.70 to 99.70): VU040553.D (-1148) (-)

Ion 61.05 (60.75 to 61.75): VU040553.D (-1148) (-)





#31

Carbon tetrachloride

Concen: 50.652 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

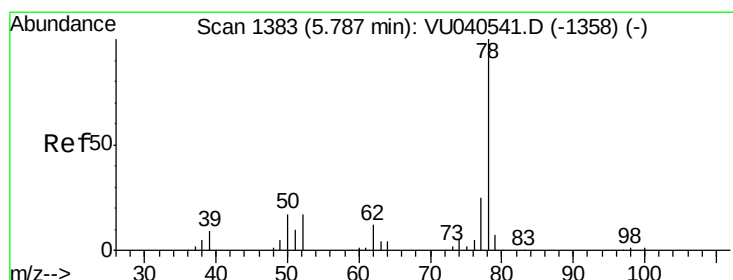
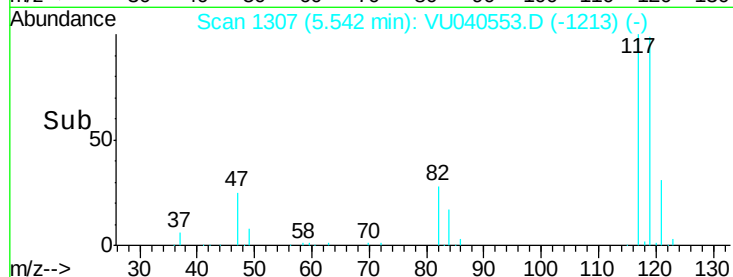
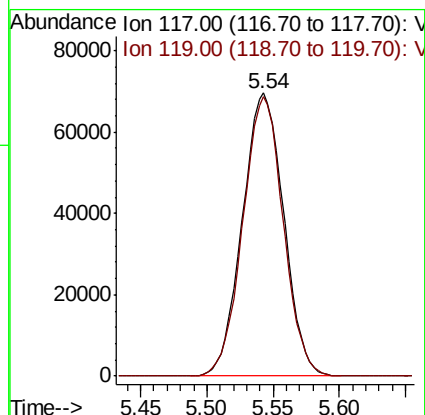
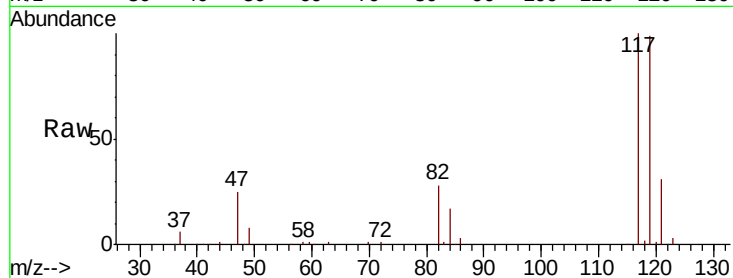
VSTD050211

Tot Ion:117 Resp: 151289

Ion Ratio Lower Upper

117 100

119 96.4 75.8 113.6



#33

Benzene

Concen: 50.189 ug/L

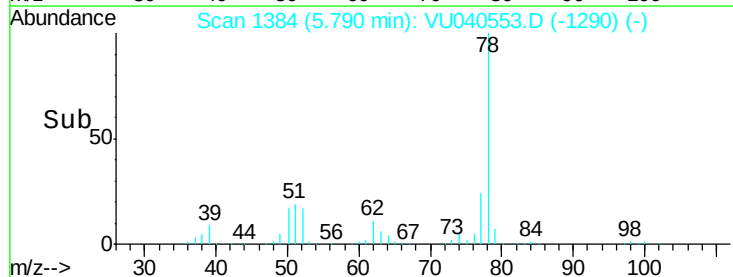
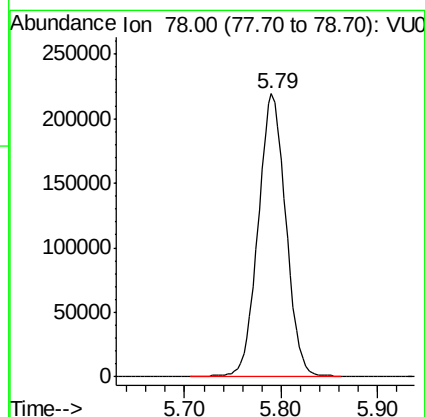
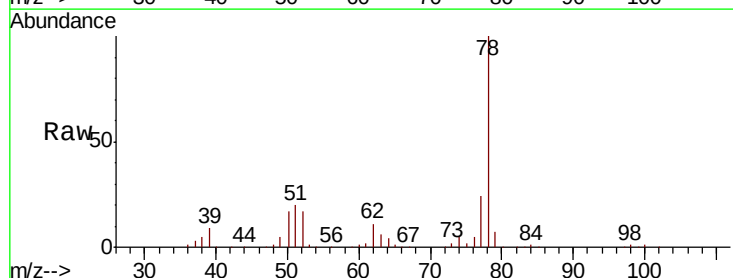
RT: 5.79 min Scan# 1384

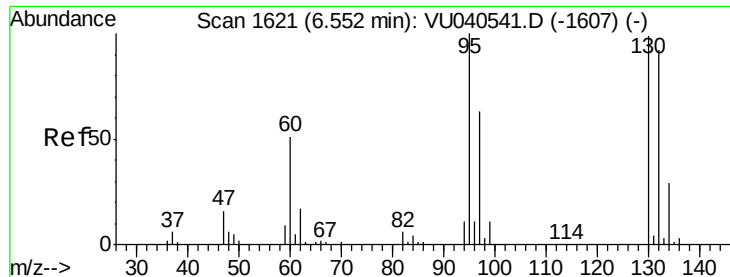
Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Tgt Ion: 78 Resp: 436287

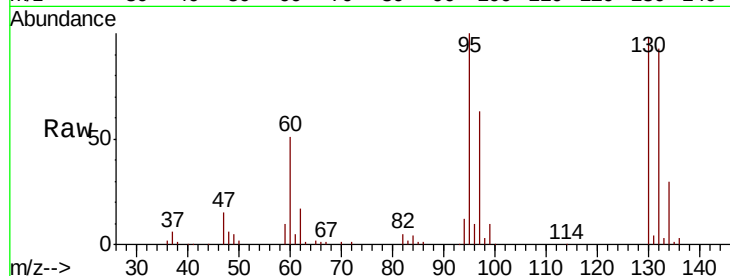




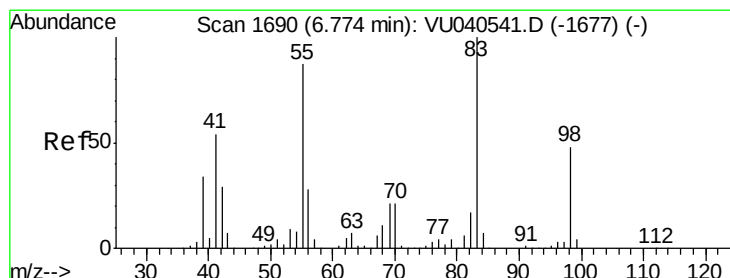
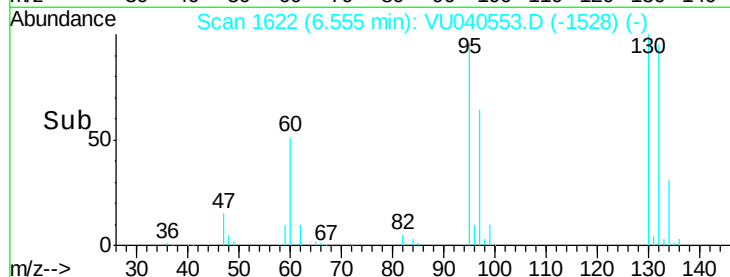
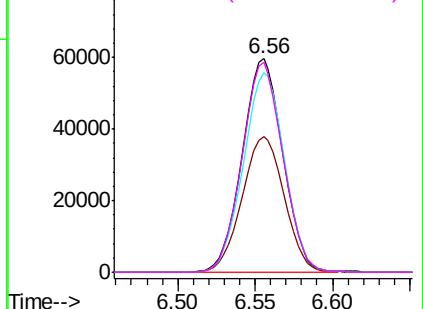
#34
 Trichloroethene
 Concen: 48.895 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050211

Tot Ion: 95 Resp: 109493
 Ion Ratio Lower Upper
 95 100
 97 63.3 44.3 82.3
 132 93.4 64.2 119.2
 130 98.4 67.3 125.1

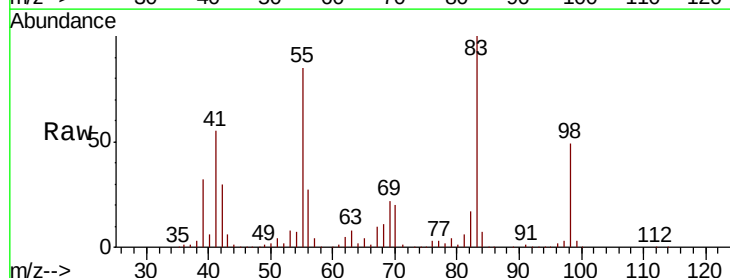


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

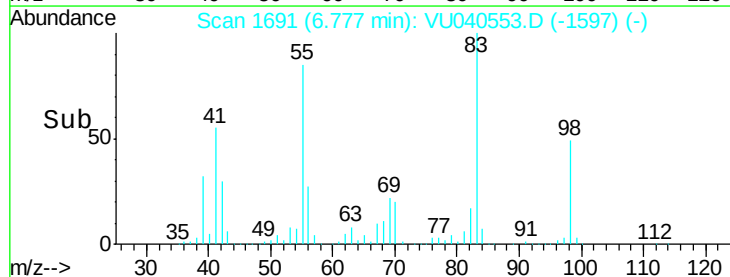
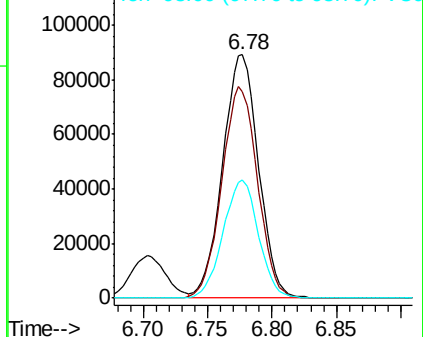


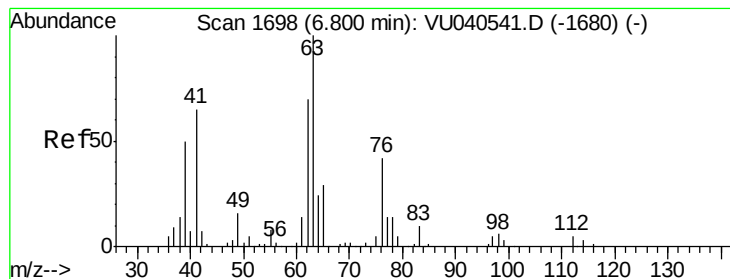
#35
 Methylcyclohexane
 Concen: 50.588 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. 0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

Tgt Ion: 83 Resp: 172232
 Ion Ratio Lower Upper
 83 100
 55 86.6 69.8 104.8
 98 48.0 39.1 58.7



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





#37

1,2-Dichloropropane

Concen: 49.339 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

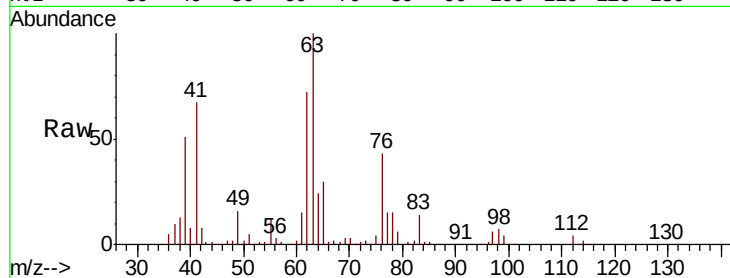
VSTD050211

Tot Ion: 63 Resp: 117777

Ion Ratio Lower Upper

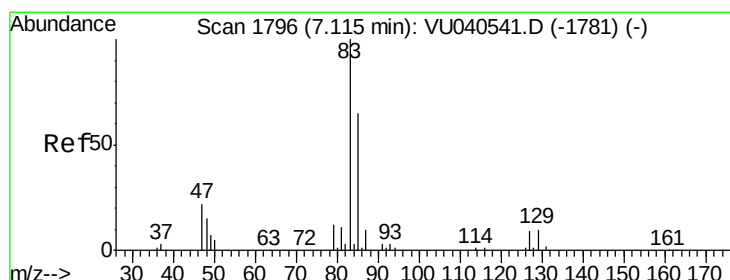
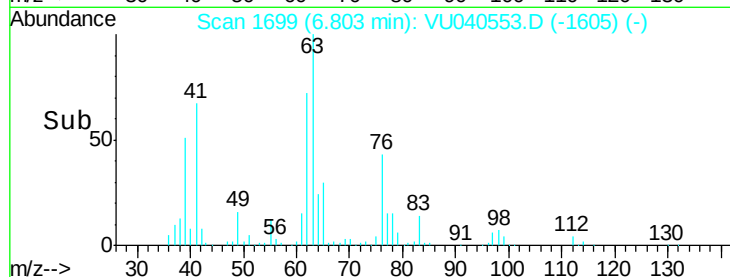
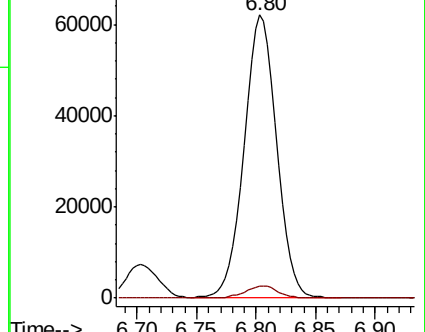
63 100

112 4.3 3.5 5.3



Abundance Ion 63.00 (62.70 to 63.70): VU040541.D (-1680) (-)

Ion 112.00 (111.70 to 112.70): VU040541.D (-1680) (-)



#38

Bromodichloromethane

Concen: 48.509 ug/L

RT: 7.12 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

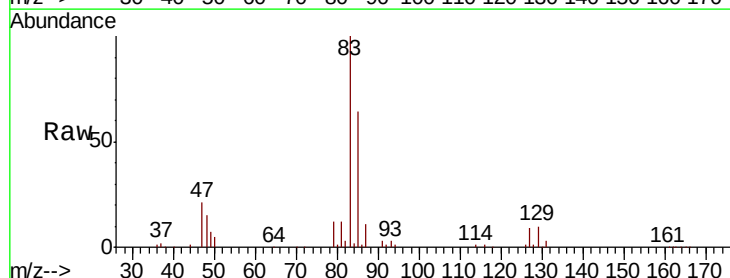
Tgt Ion: 83 Resp: 150411

Ion Ratio Lower Upper

83 100

85 64.0 45.2 84.0

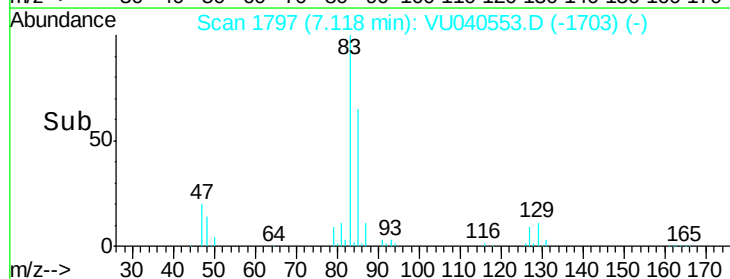
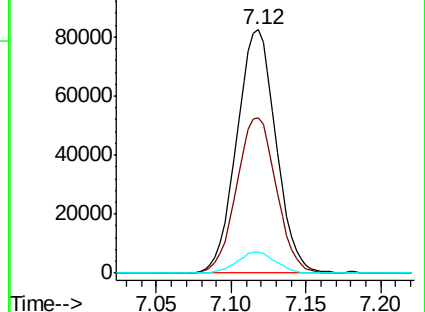
127 8.5 6.7 10.1

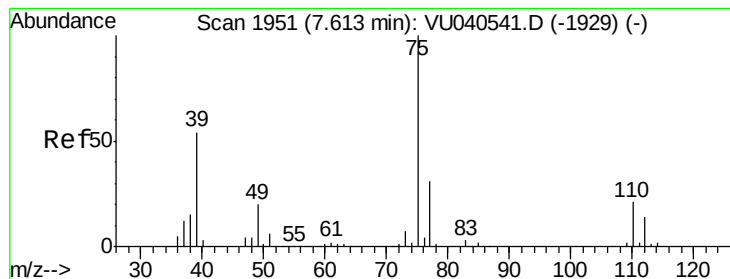


Abundance Ion 83.00 (82.70 to 83.70): VU040541.D (-1781) (-)

Ion 85.00 (84.70 to 85.70): VU040541.D (-1781) (-)

Ion 127.00 (126.70 to 127.70): VU040541.D (-1781) (-)



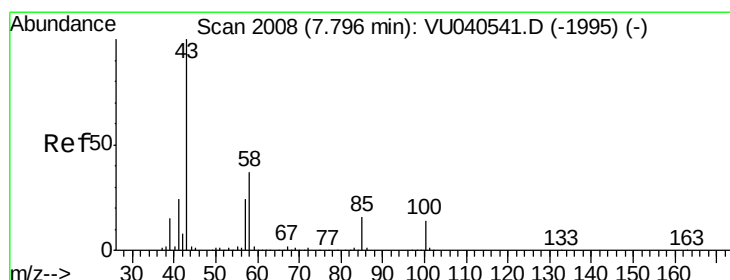
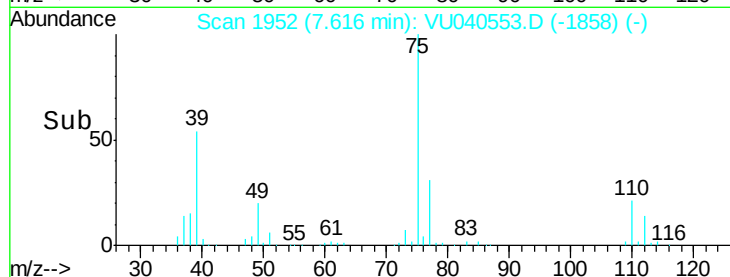
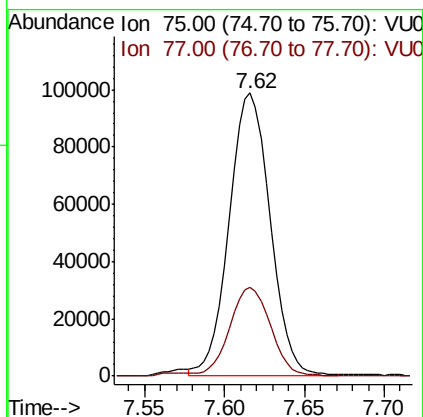
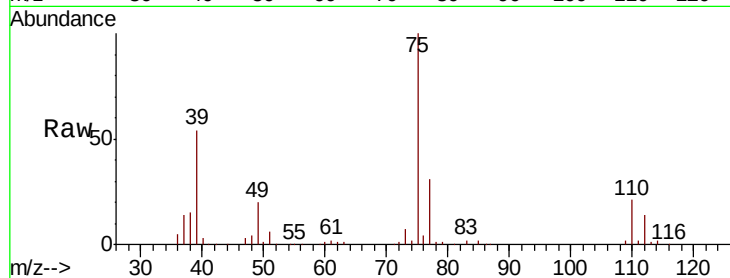


#39

cis-1,3-Dichloropropene
 Concen: 49.481 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050211

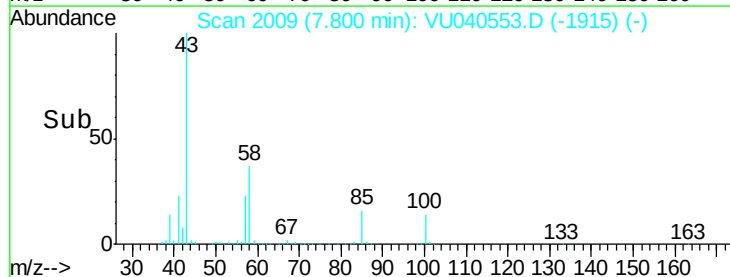
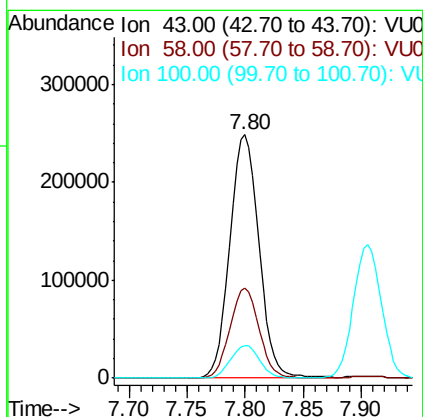
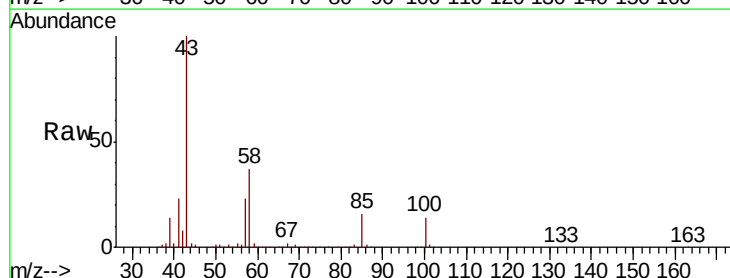
Tot Ion: 75 Resp: 173110
 Ion Ratio Lower Upper
 75 100
 77 31.4 21.4 39.8

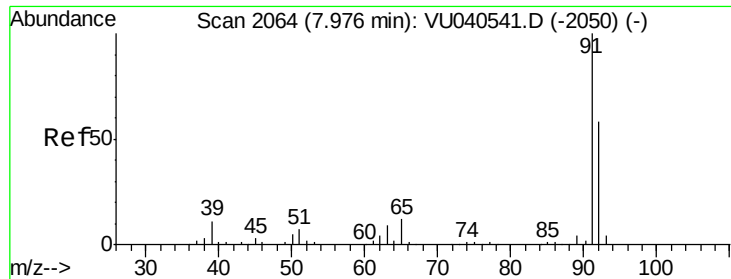


#40

4-Methyl-2-pentanone
 Concen: 114.687 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

Tgt Ion: 43 Resp: 431987
 Ion Ratio Lower Upper
 43 100
 58 36.8 29.7 44.5
 100 13.3 10.5 15.7





#42

Toluene

Concen: 50.657 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

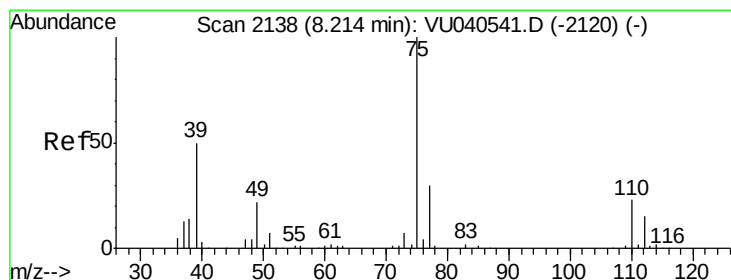
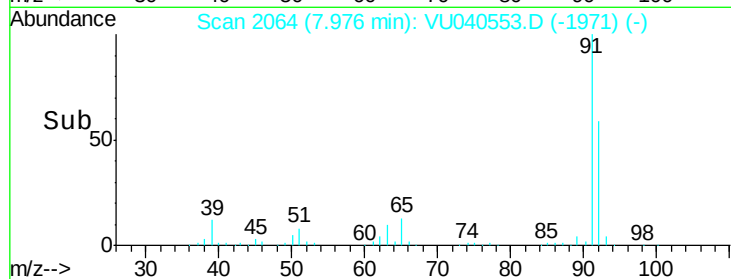
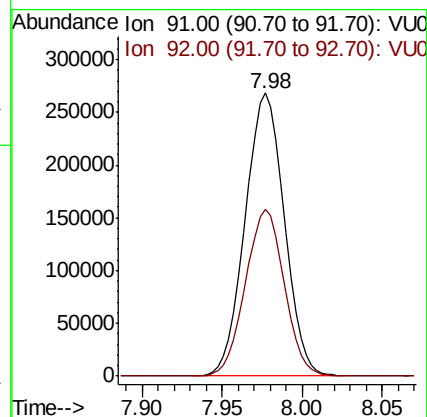
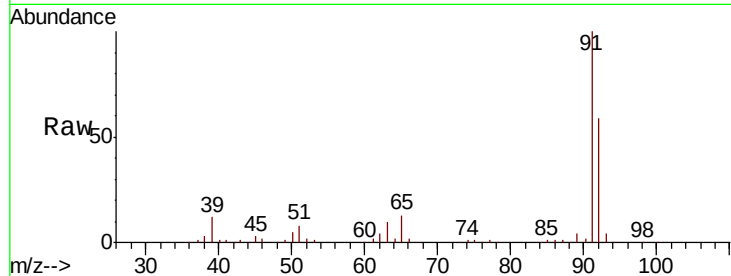
VSTD050211

Tot Ion: 91 Resp: 449575

Ion Ratio Lower Upper

91 100

92 59.1 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 49.831 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040553.D

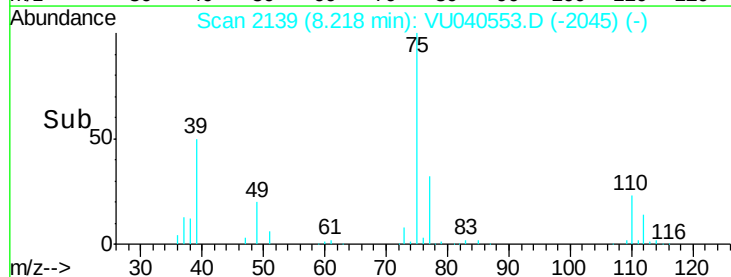
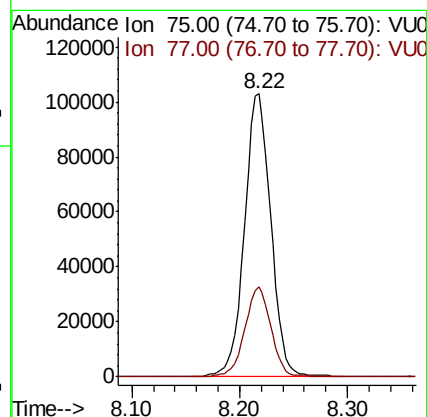
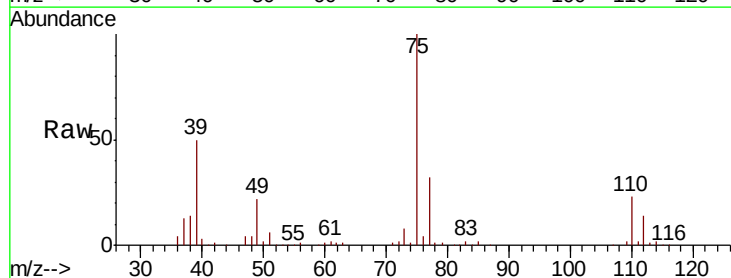
Acq: 07 Oct 2020 18:53

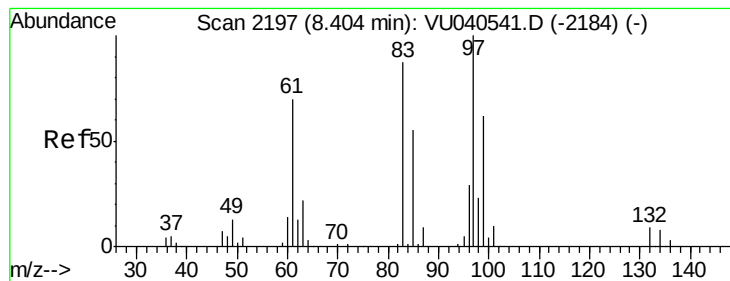
Tgt Ion: 75 Resp: 175530

Ion Ratio Lower Upper

75 100

77 32.0 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 49.788 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD050211

Tot Ion: 97 Resp: 106469

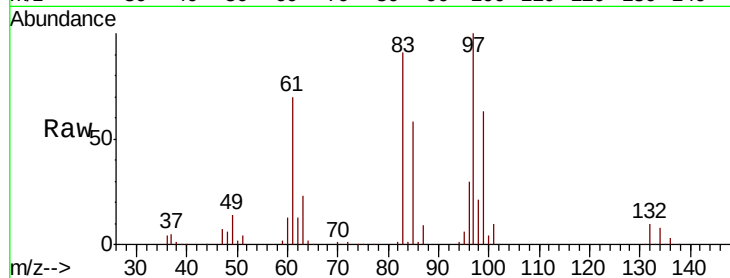
Ion Ratio Lower Upper

97 100

99 63.1 42.7 79.3

83 90.5 61.0 113.4

85 57.6 39.8 73.8

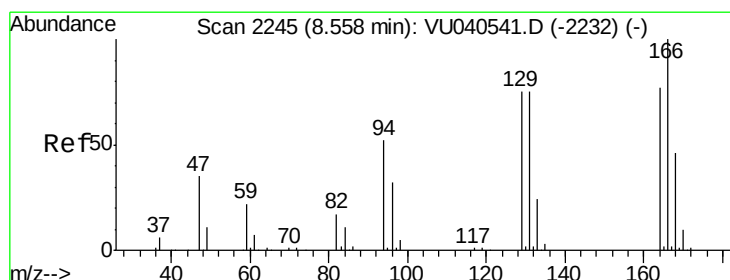
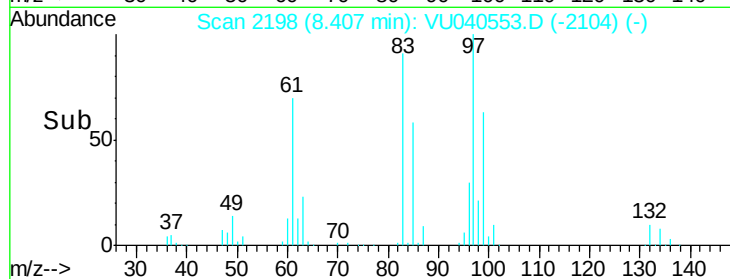
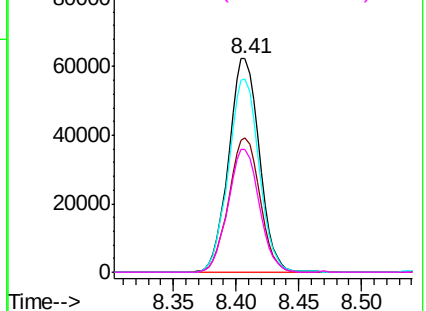


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 49.844 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Tgt Ion: 164 Resp: 80653

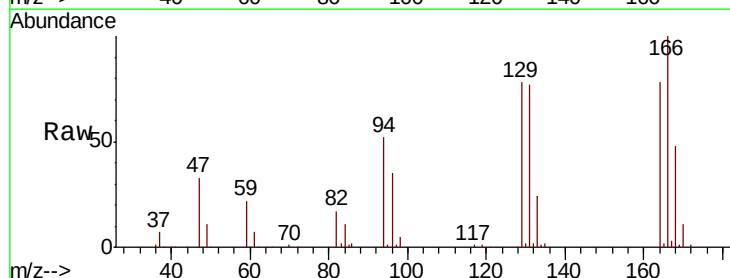
Ion Ratio Lower Upper

164 100

129 99.9 67.4 125.2

131 99.3 63.8 118.6

166 128.2 88.7 164.7

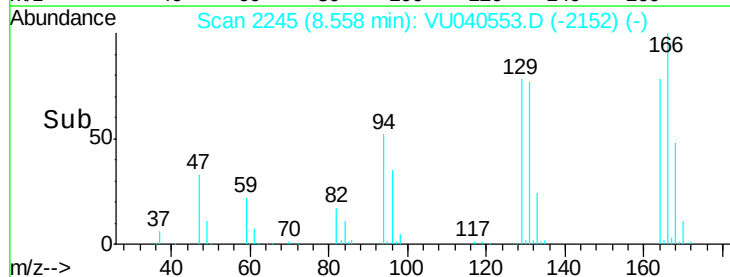
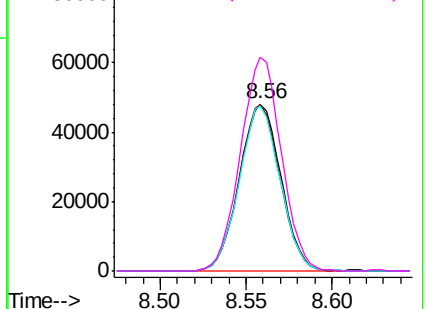


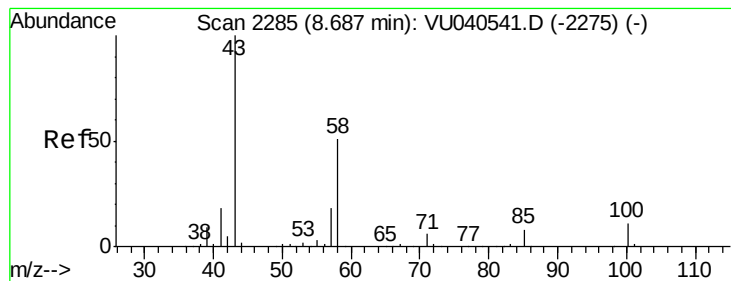
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 118.741 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD050211

Tot Ion: 43 Resp: 363518

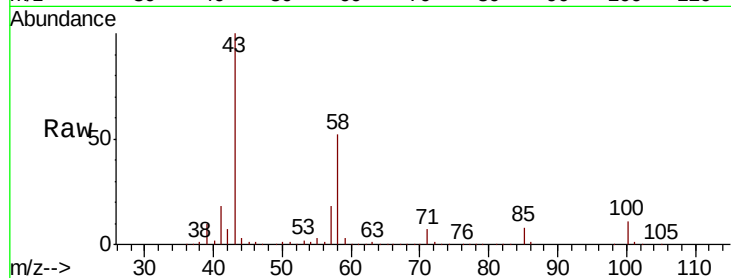
Ion Ratio Lower Upper

43 100

58 51.6 40.6 60.8

57 18.2 14.3 21.5

100 10.8 8.5 12.7

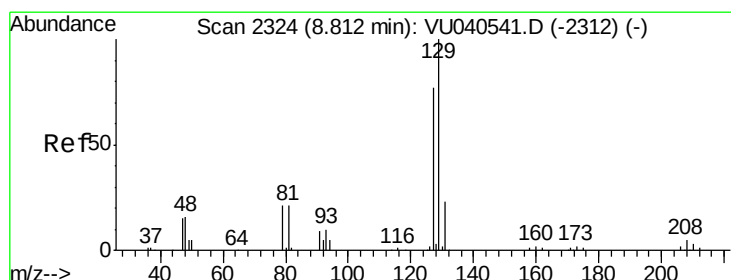
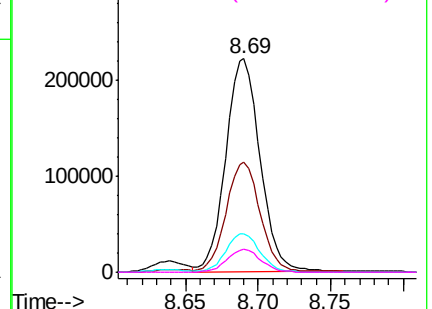
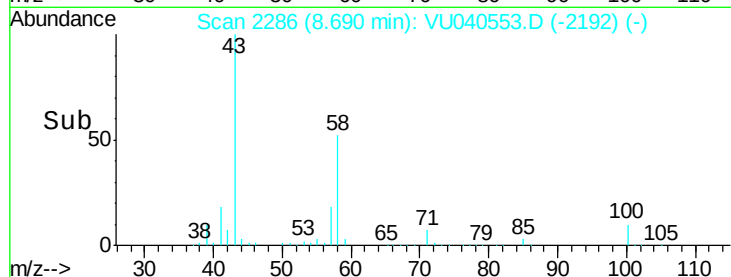


Abundance Ion 43.00 (42.70 to 43.70): VU040553.D (-2192) (-)

Ion 58.00 (57.70 to 58.70): VU040553.D (-2192) (-)

Ion 57.00 (56.70 to 57.70): VU040553.D (-2192) (-)

Ion 100.00 (99.70 to 100.70): VU040553.D (-2192) (-)



#49

Dibromochloromethane

Concen: 50.195 ug/L

RT: 8.82 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU040553.D

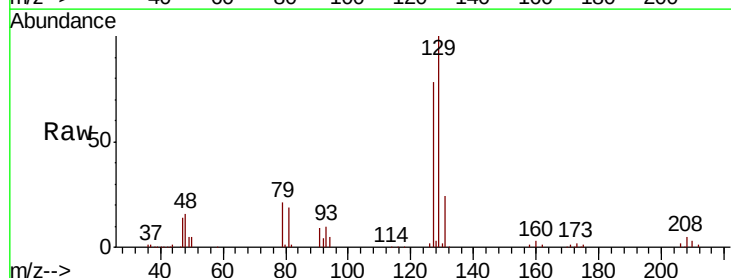
Acq: 07 Oct 2020 18:53

Tgt Ion: 129 Resp: 117204

Ion Ratio Lower Upper

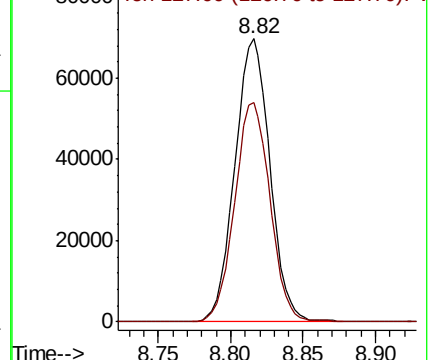
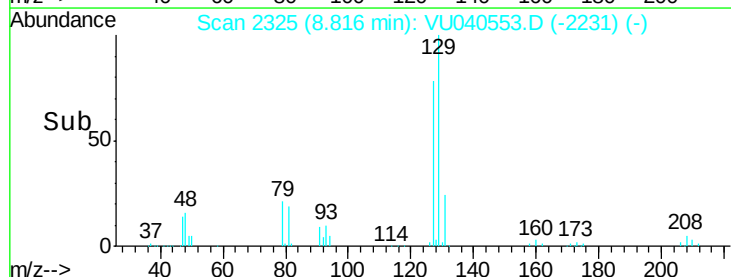
129 100

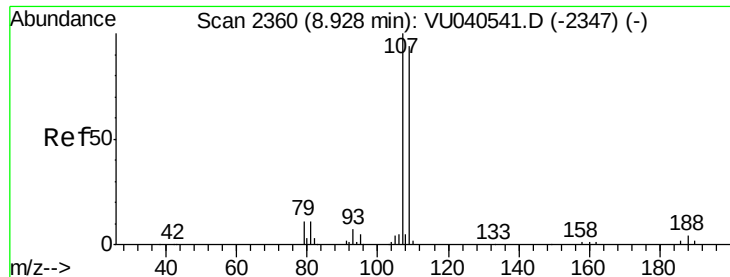
127 77.6 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): VU040553.D (-2231) (-)

Ion 127.00 (126.70 to 127.70): VU040553.D (-2231) (-)

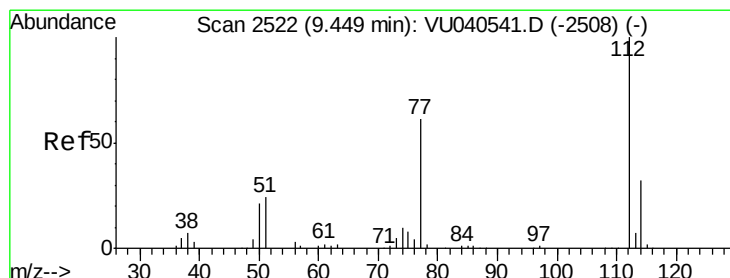
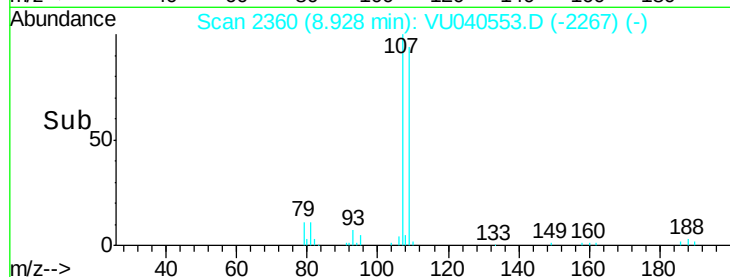
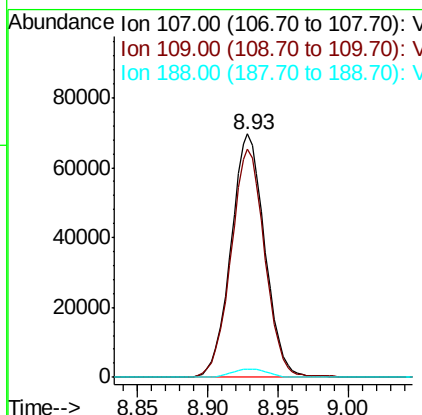
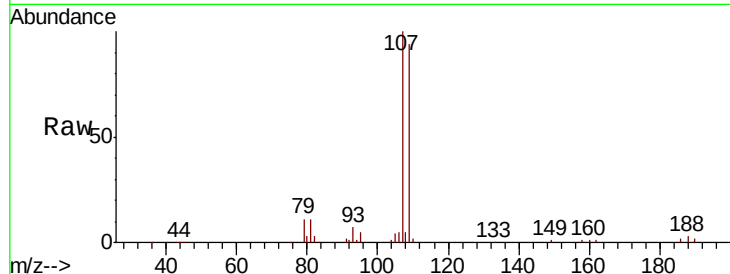




#50
 1,2-Dibromoethane
 Concen: 51.633 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

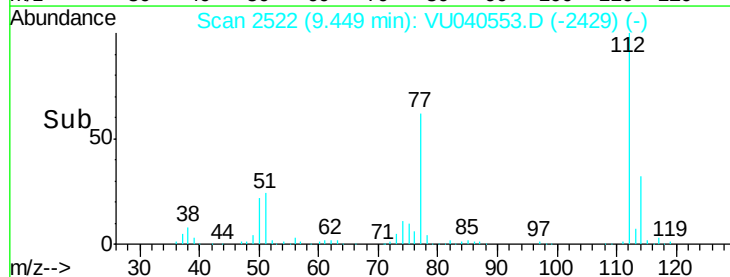
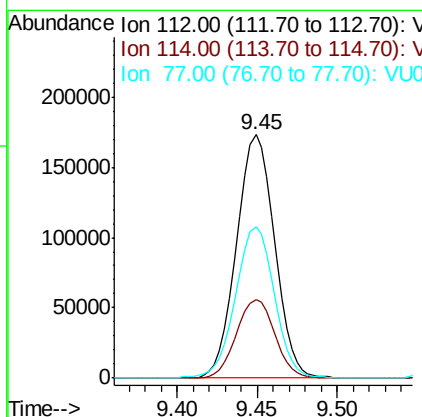
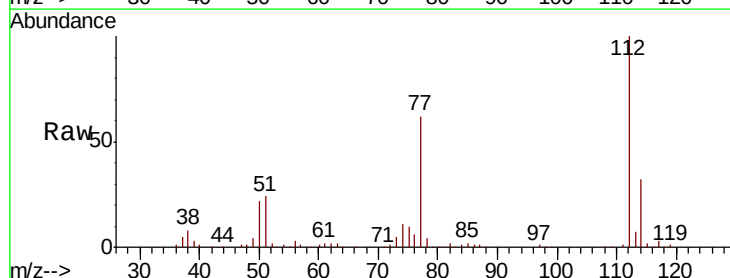
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050211

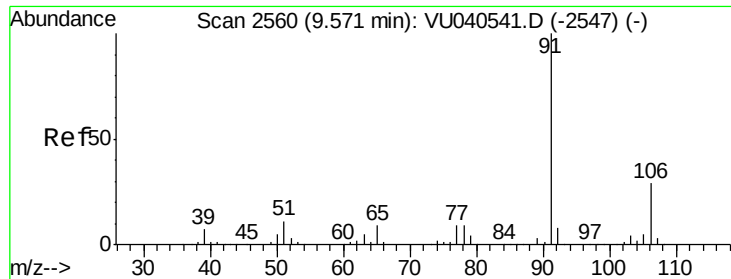
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	67.8	125.8
188	3.4	2.8	4.2



#51
 Chlorobenzene
 Concen: 48.344 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.1	41.1
77	62.1	50.4	75.6





#52

Ethylbenzene

Concen: 50.054 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

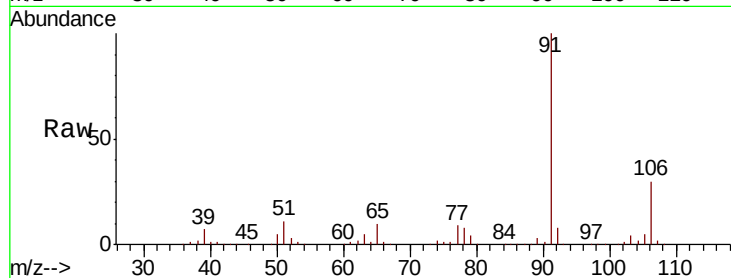
VSTD050211

Tot Ion: 91 Resp: 493073

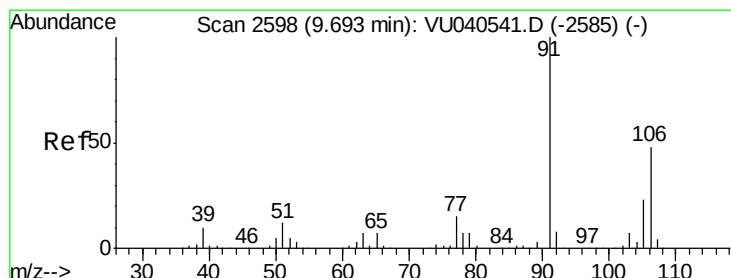
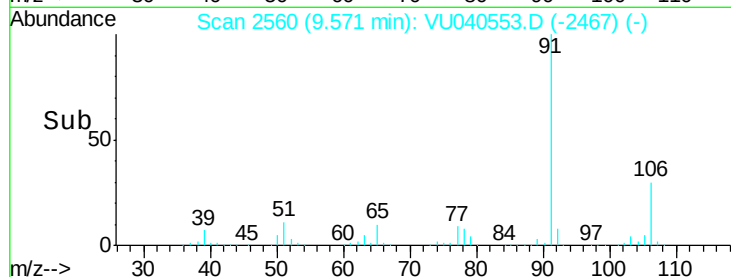
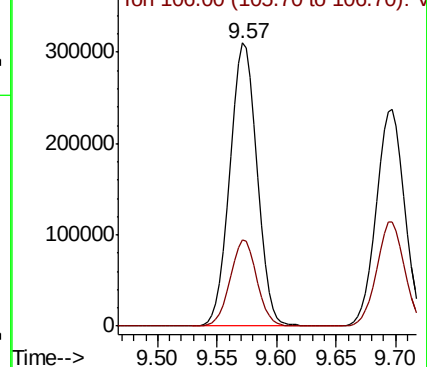
Ion Ratio Lower Upper

91 100

106 30.3 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU040541.D (-2547) (-)



#53

m,p-Xylene

Concen: 51.000 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040553.D

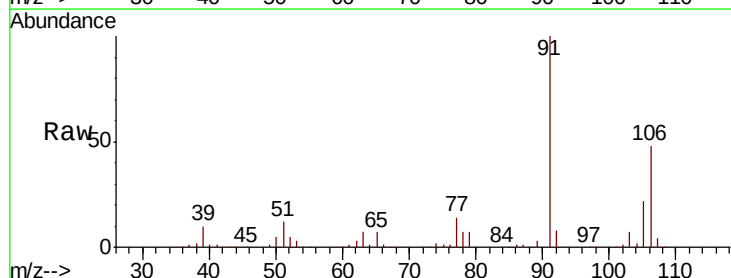
Acq: 07 Oct 2020 18:53

Tgt Ion: 106 Resp: 185001

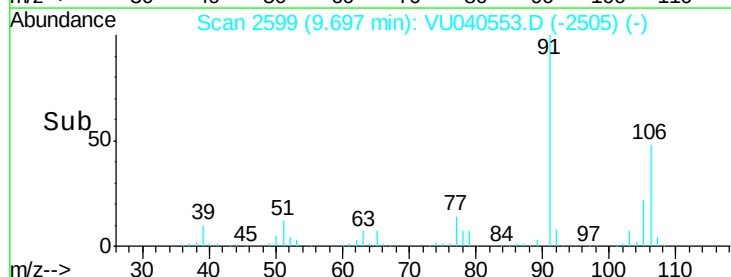
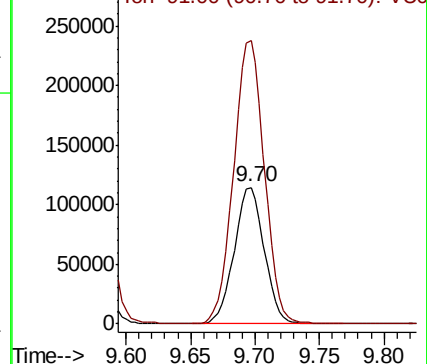
Ion Ratio Lower Upper

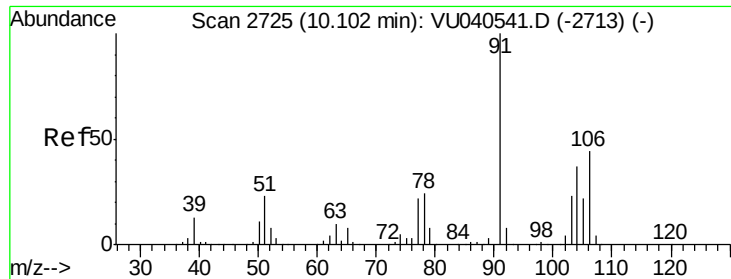
106 100

91 207.4 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): VU040541.D (-2585) (-)





#54

o-xylene

Concen: 50.979 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampled :

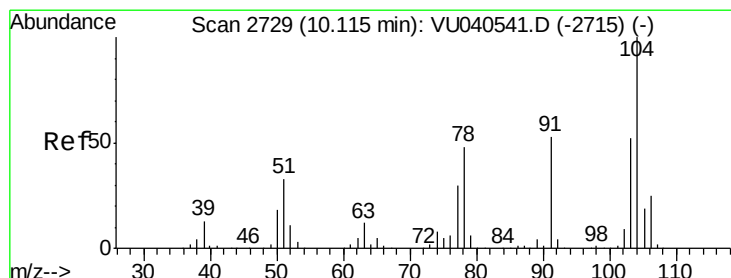
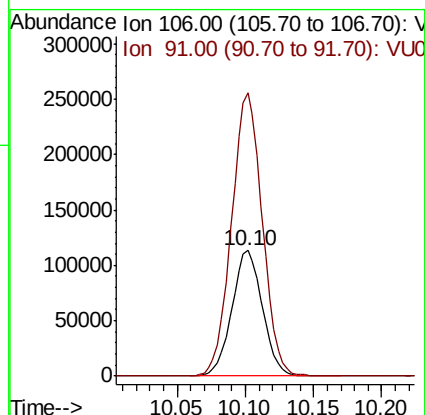
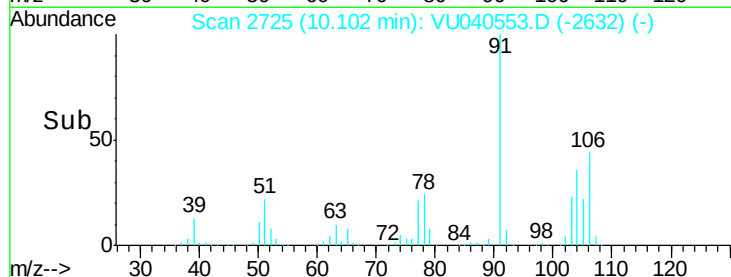
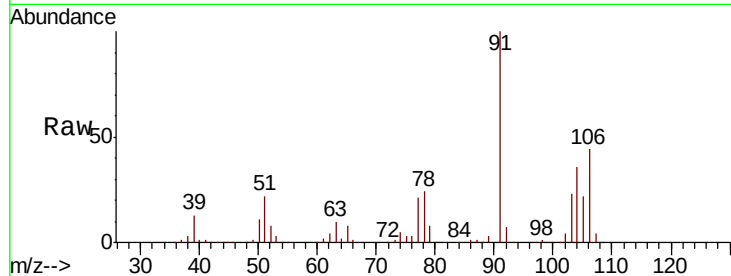
VSTD050211

Tot Ion:106 Resp: 175940

Ion Ratio Lower Upper

106 100

91 225.7 155.6 289.0



#55

Styrene

Concen: 52.027 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU040553.D

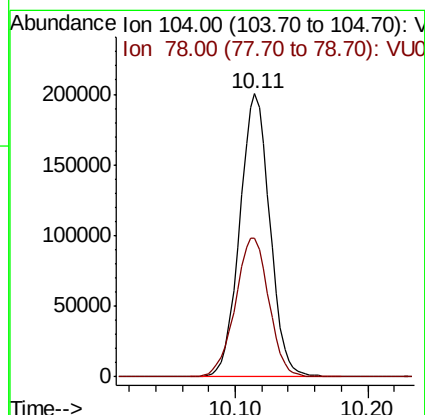
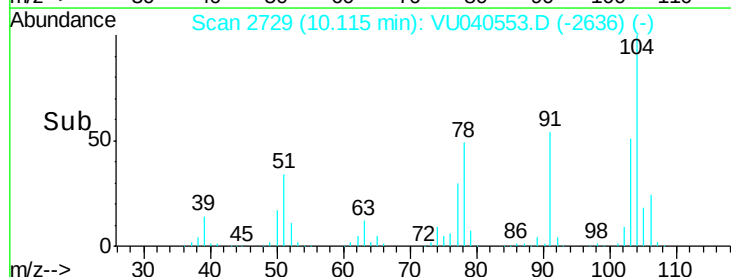
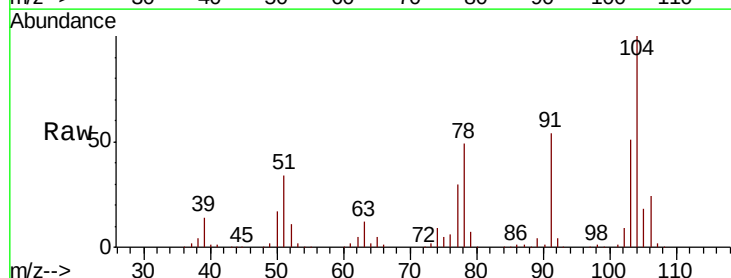
Acq: 07 Oct 2020 18:53

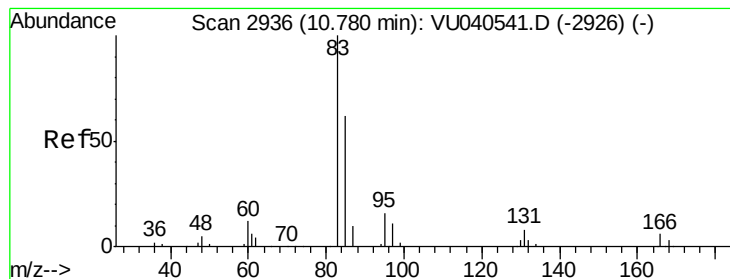
Tgt Ion:104 Resp: 316264

Ion Ratio Lower Upper

104 100

78 48.9 35.2 65.4





#57

1,1,2,2-Tetrachloroethane

Concen: 50.937 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD050211

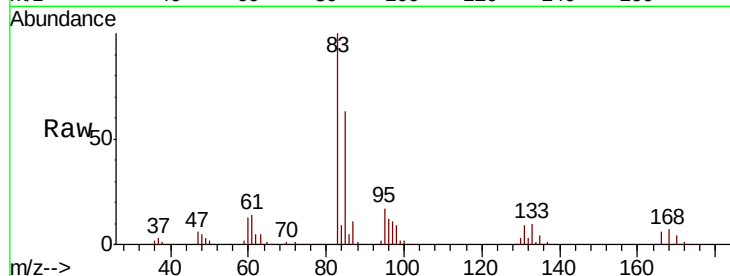
Tot Ion: 83 Resp: 192623

Ion Ratio Lower Upper

83 100

85 62.6 44.2 82.2

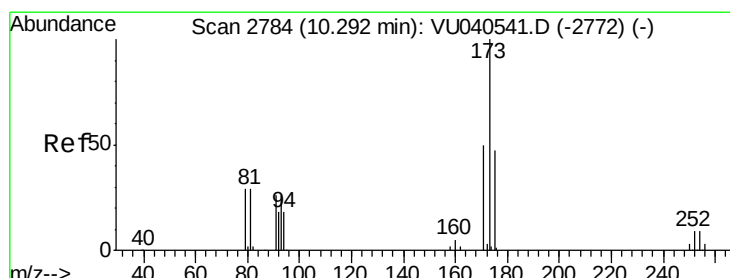
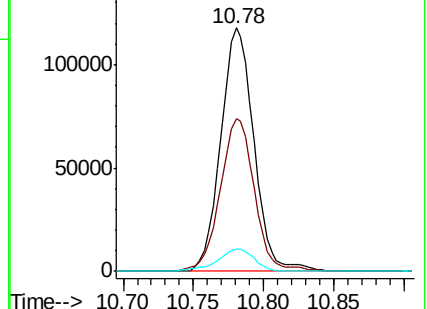
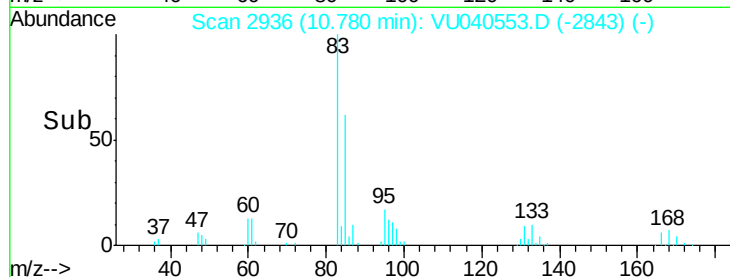
131 9.1 7.1 10.7



Abundance Ion 83.00 (82.70 to 83.70): VU040553.D (-2843) (-)

Ion 85.00 (84.70 to 85.70): VU040553.D (-2843) (-)

Ion 131.00 (130.70 to 131.70): VU040553.D (-2843) (-)



#59

Bromoform

Concen: 47.887 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

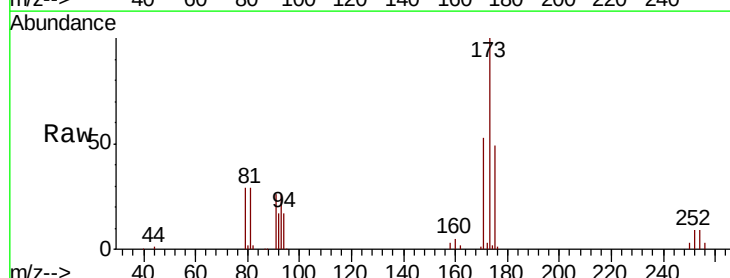
Tgt Ion: 173 Resp: 85255

Ion Ratio Lower Upper

173 100

175 48.3 38.5 57.7

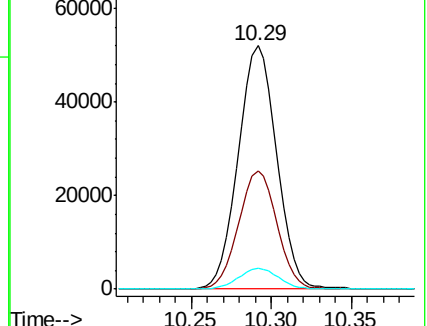
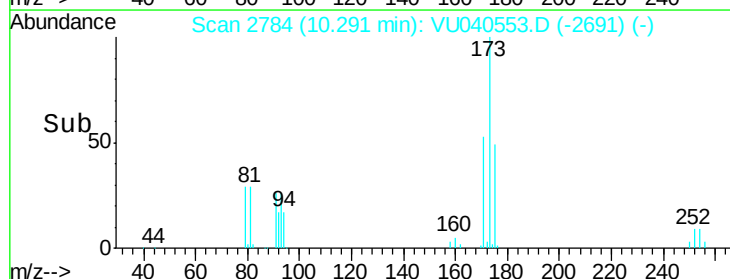
254 8.8 7.0 10.6

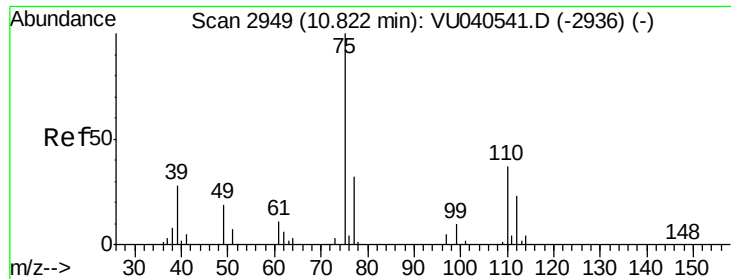


Abundance Ion 173.00 (172.70 to 173.70): VU040553.D (-2691) (-)

Ion 175.00 (174.70 to 175.70): VU040553.D (-2691) (-)

Ion 254.00 (253.70 to 254.70): VU040553.D (-2691) (-)

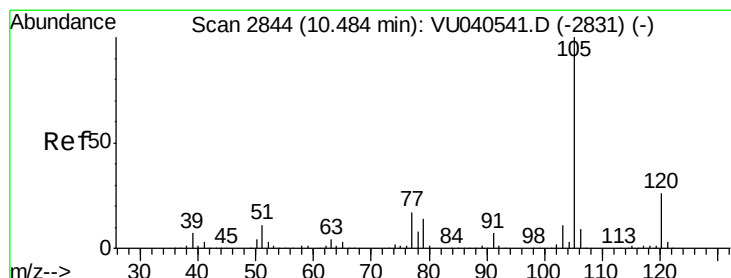
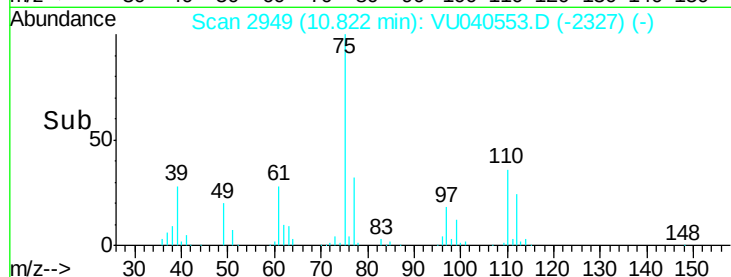
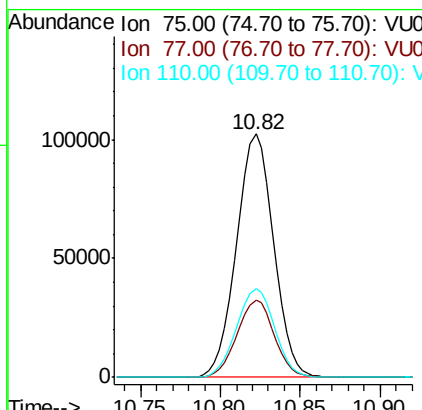
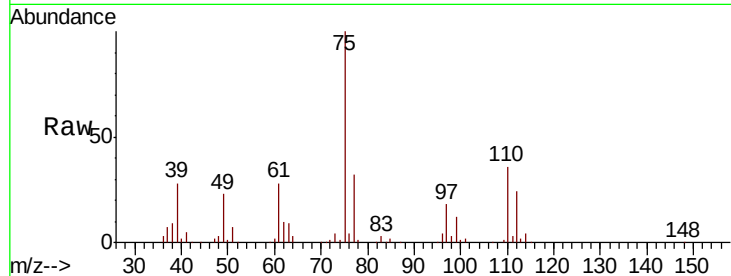




#60
1,2,3-Trichloropropane
Concen: 48.887 ug/L
RT: 10.82 min Scan# 2949
Delta R.T. -0.00 min
Lab File: VU040553.D
Acq: 07 Oct 2020 18:53

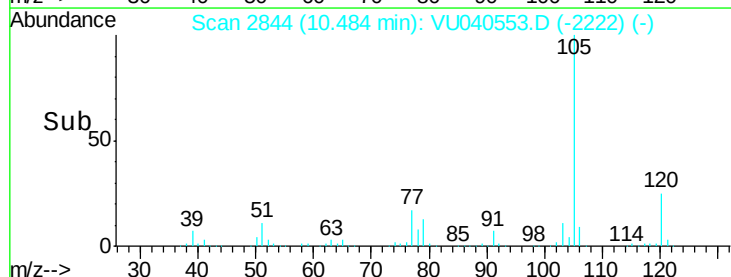
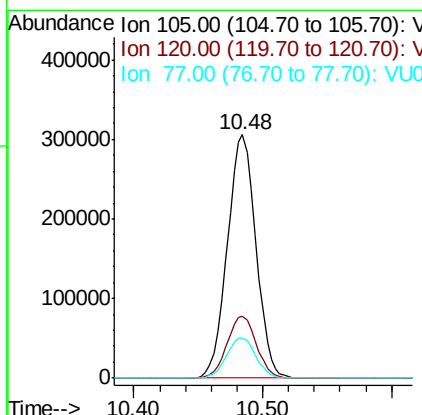
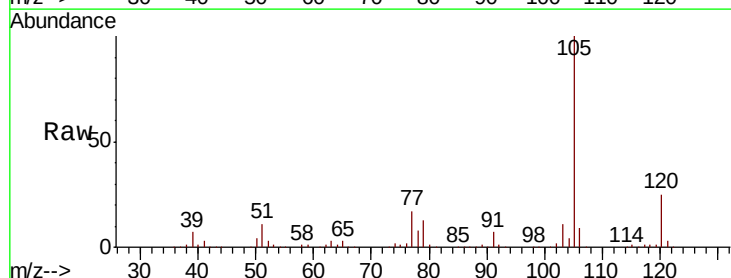
Instrument :
MSVOA_U
ClientSampleId :
VSTD050211

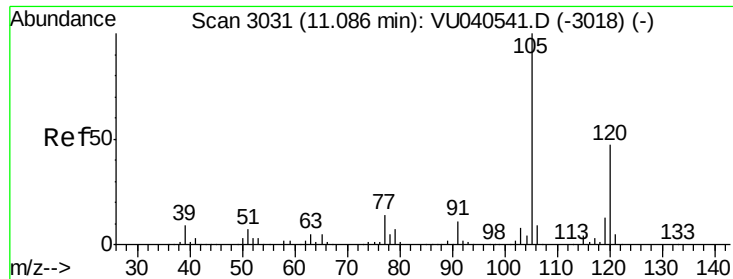
Tot Ion: 75 Resp: 161301
Ion Ratio Lower Upper
75 100
77 32.0 26.4 39.6
110 37.3 30.1 45.1



#61
Isopropylbenzene
Concen: 48.106 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. -0.00 min
Lab File: VU040553.D
Acq: 07 Oct 2020 18:53

Tgt Ion: 105 Resp: 469263
Ion Ratio Lower Upper
105 100
120 26.0 20.7 31.1
77 17.1 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 49.365 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

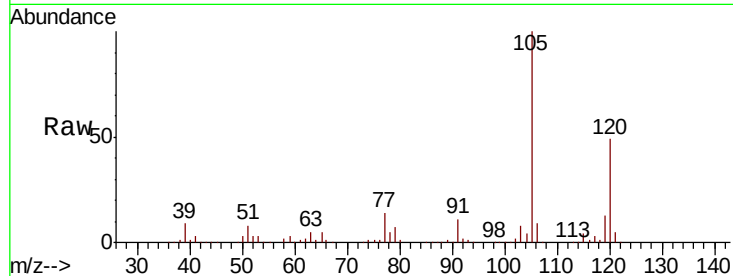
VSTD050211

Tot Ion:105 Resp: 395641

Ion Ratio Lower Upper

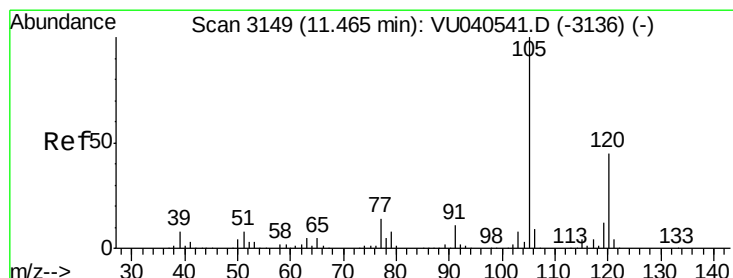
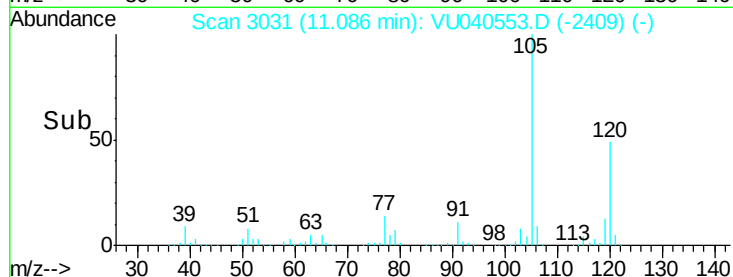
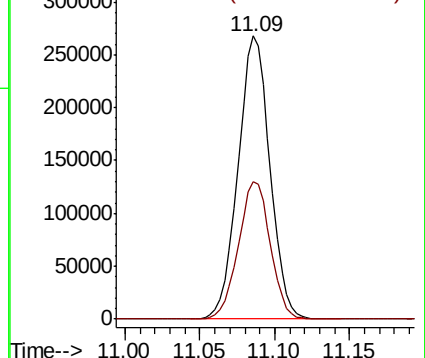
105 100

120 48.7 38.6 58.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 50.012 ug/L

RT: 11.47 min Scan# 3149

Delta R.T. -0.00 min

Lab File: VU040553.D

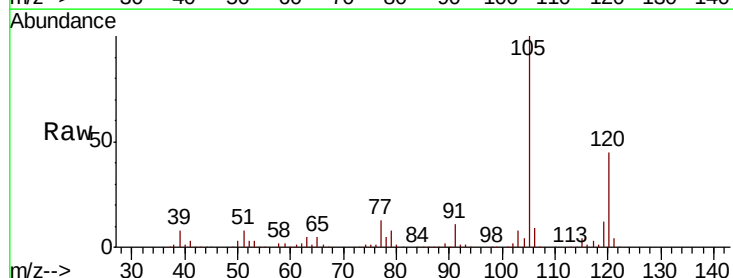
Acq: 07 Oct 2020 18:53

Tgt Ion:105 Resp: 406521

Ion Ratio Lower Upper

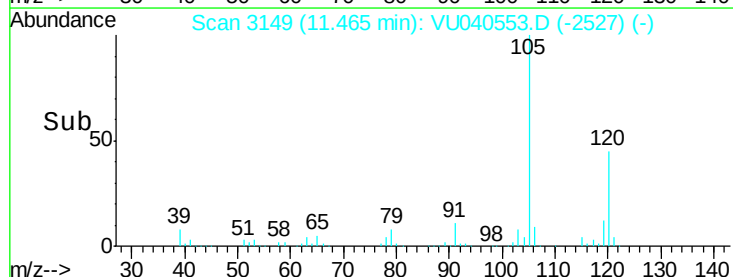
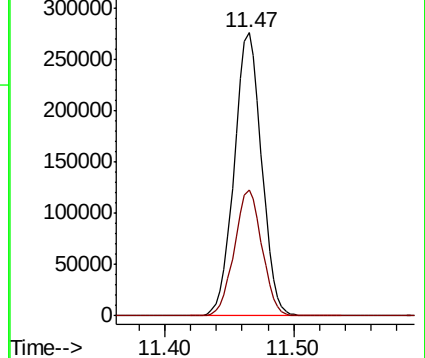
105 100

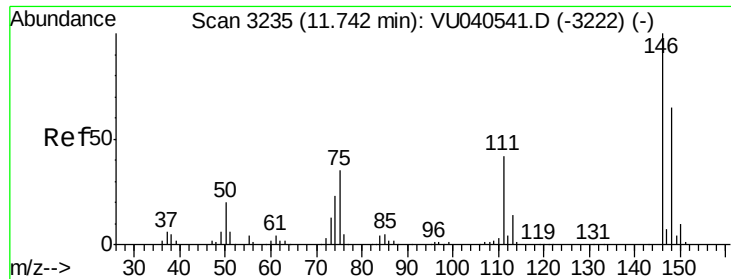
120 44.9 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

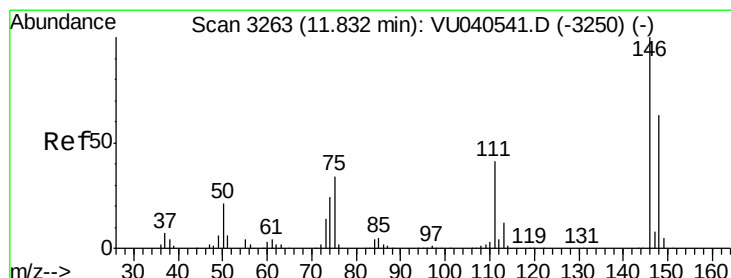
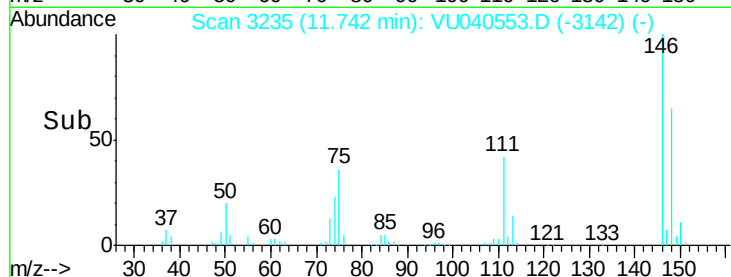
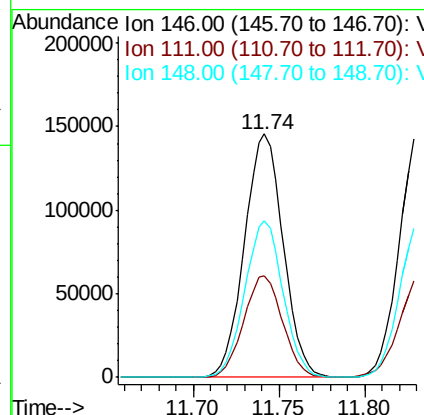
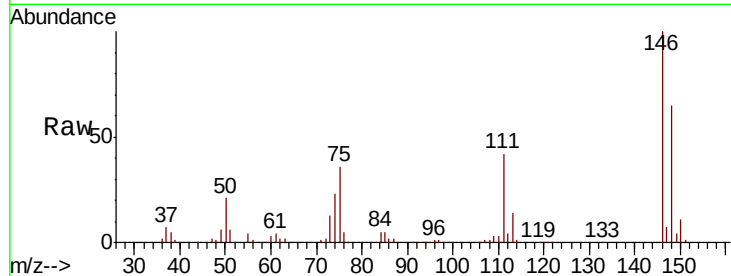




#64
 1,3-Dichlorobenzene
 Concen: 47.736 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

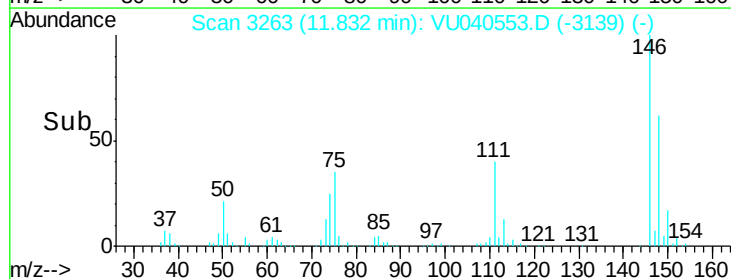
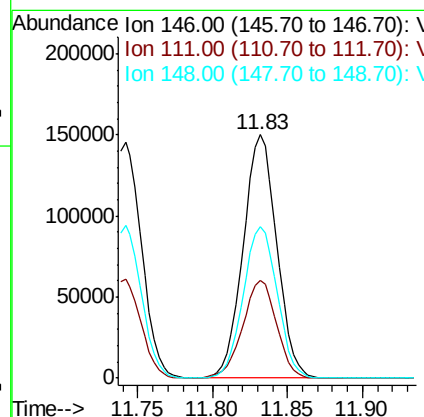
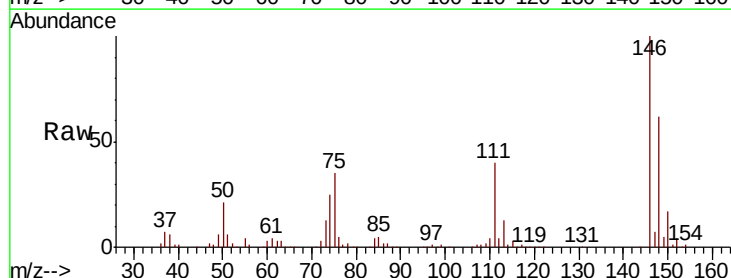
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050211

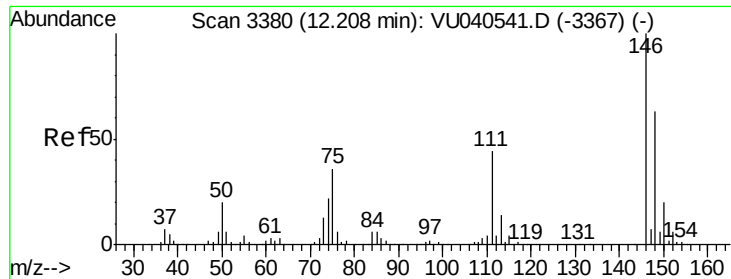
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	30.8	57.2
148	64.5	45.4	84.2



#65
 1,4-Dichlorobenzene
 Concen: 47.003 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	28.7	53.3
148	62.0	44.1	81.9

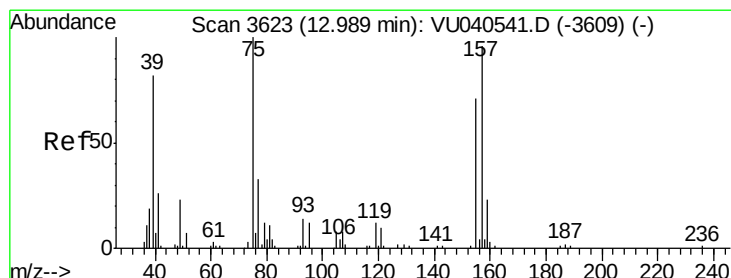
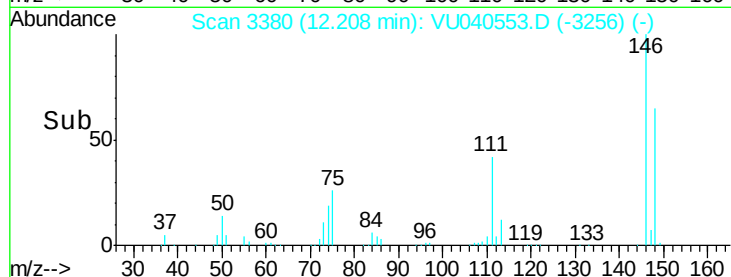
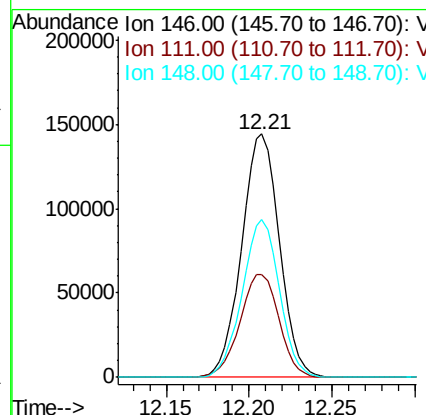
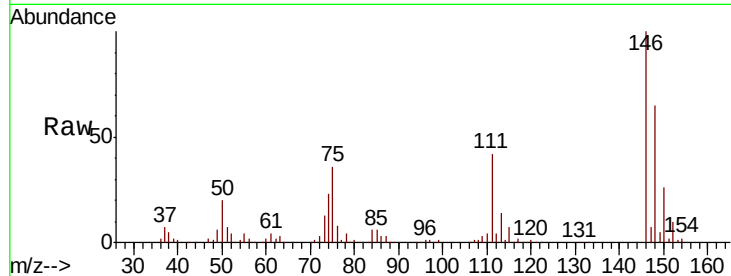




#67
 1,2-Dichlorobenzene
 Concen: 48.102 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

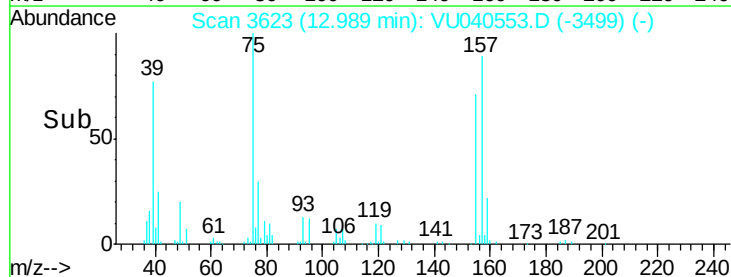
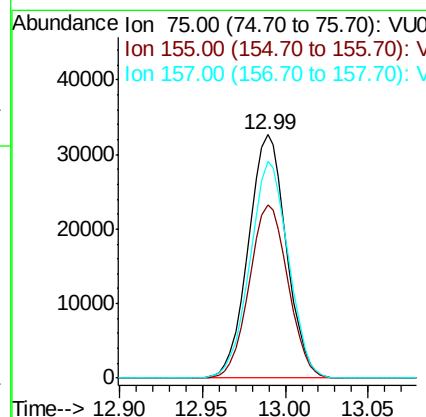
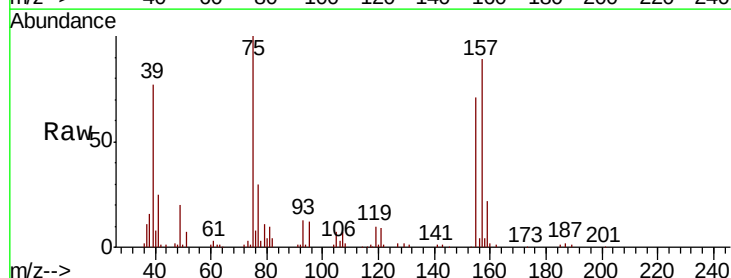
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050211

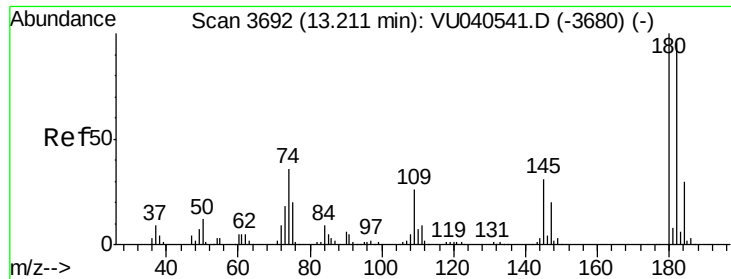
Tot Ion:146 Resp: 229199
 Ion Ratio Lower Upper
 146 100
 111 42.4 35.7 53.5
 148 64.7 50.6 75.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 55.921 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

Tgt Ion: 75 Resp: 51840
 Ion Ratio Lower Upper
 75 100
 155 71.3 61.0 91.6
 157 89.2 73.5 110.3

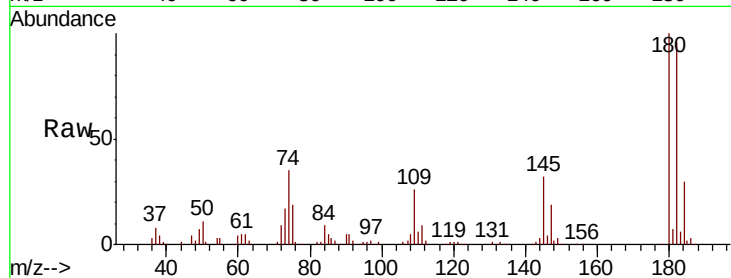




#69
 1,3,5-Trichlorobenzene
 Concen: 50.113 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050211

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.9	115.3
184	30.1	24.2	36.2
145	31.7	25.4	38.2



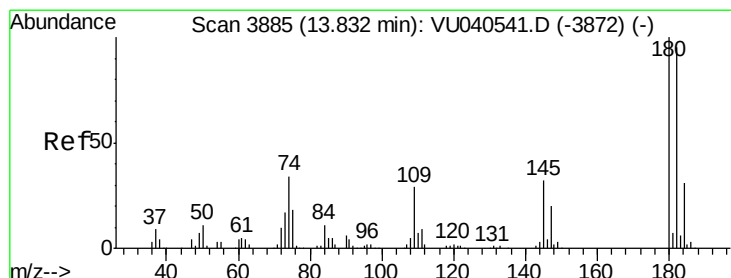
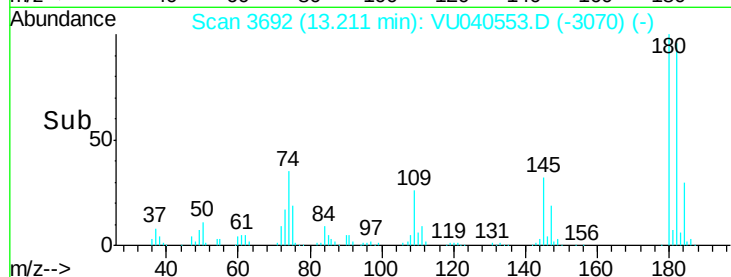
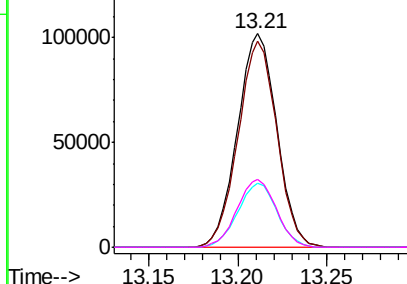
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

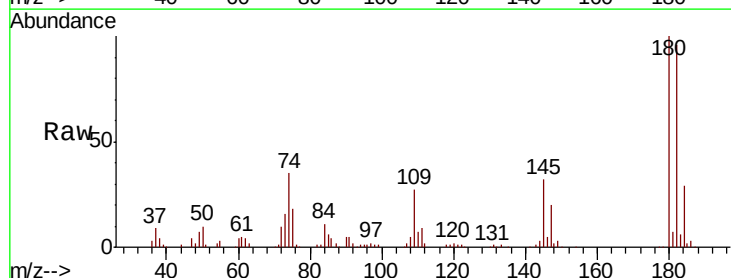
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 50.674 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040553.D
 Acq: 07 Oct 2020 18:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.0	112.6
145	32.7	25.9	38.9

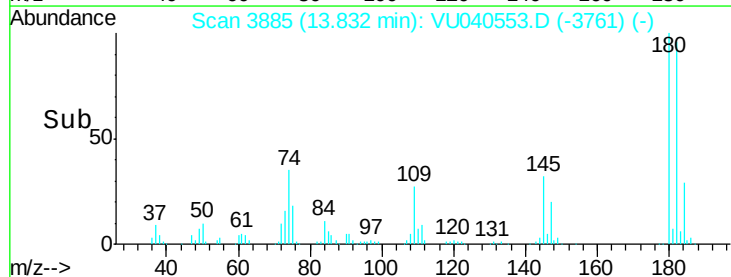
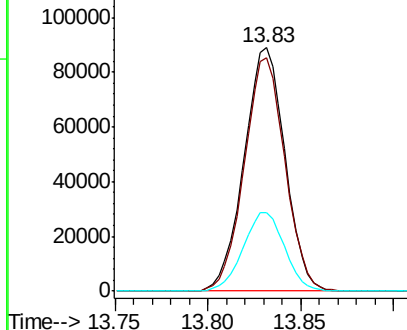


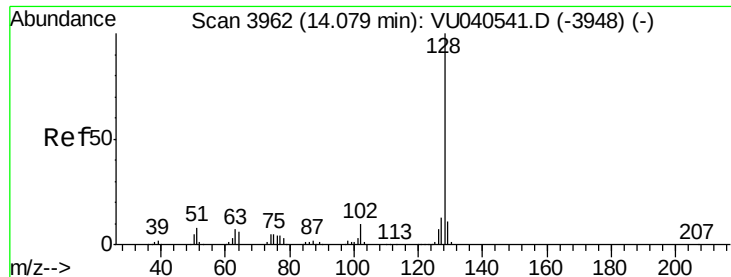
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#71

Naphthalene

Concen: 54.257 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD050211

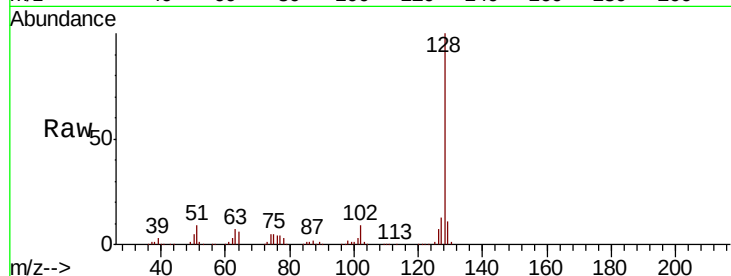
Tot Ion:128 Resp: 453001

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

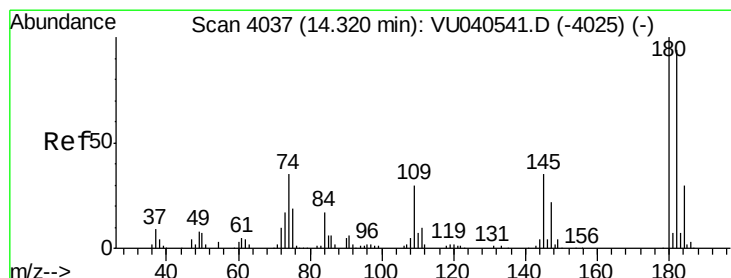
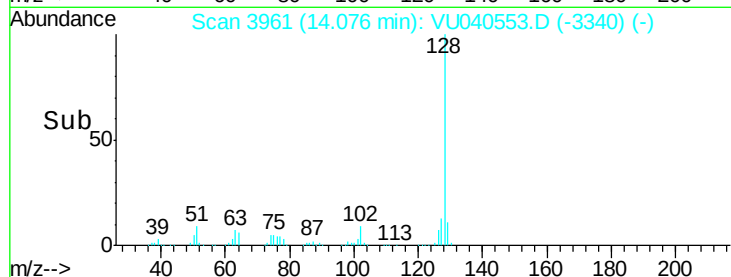
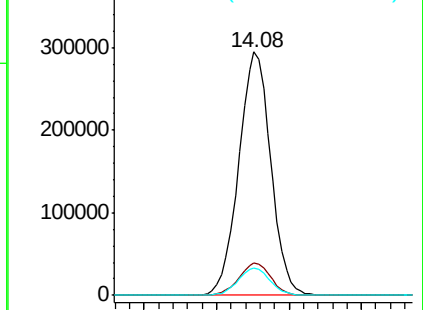
129 11.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 52.293 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU040553.D

Acq: 07 Oct 2020 18:53

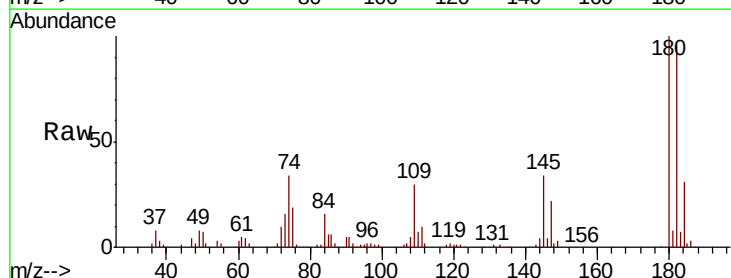
Tgt Ion:180 Resp: 140205

Ion Ratio Lower Upper

180 100

182 95.3 77.7 116.5

145 34.5 28.4 42.6



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

