

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100720\
 Data File : VU040543.D
 Acq On : 07 Oct 2020 14:14
 Operator : SY/MD
 Sample : L4153-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X2N55

Quant Time: Oct 08 01:42:32 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	288360	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	275667	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	133563	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	107341	43.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.68%
7) Chloroethane-d5	1.91	69	72583	38.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	76.94%
11) 1,1-Dichloroethene-d2	2.58	63	198178	41.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.88%
21) 2-Butanone-d5	4.64	46	206800	105.22	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.22%
24) Chloroform-d	5.08	84	189019	44.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.50%
26) 1,2-Dichloroethane-d4	5.72	65	138562	46.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.16%
32) Benzene-d6	5.74	84	379506	48.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.74%
36) 1,2-Dichloropropane-d6	6.70	67	125795	47.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.68%
41) Toluene-d8	7.90	98	341350	47.99	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.98%
43) trans-1,3-Dichloropropene-	8.18	79	61009	46.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.70%
47) 2-Hexanone-d5	8.64	63	139404	113.72	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.72%
56) 1,1,2,2-Tetrachloroethane-	10.76	84	183703	48.37	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.74%
66) 1,2-Dichlorobenzene-d4	12.19	152	132685	48.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.62%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	178445	61.768	ug/L	99
8) Chloroethane	1.93	64	179185	102.799	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	123162	55.754	ug/L	98
12) 1,1-Dichloroethene	2.59	96	78785	38.575	ug/L	96
17) trans-1,2-Dichloroethene	3.37	96	172546	79.320	ug/L	97
27) 1,2-Dichloroethane	5.81	62	102707	28.132	ug/L	100
29) Cyclohexane	5.40	56	197621	53.540	ug/L	99
30) 1,1,1-Trichloroethane	5.33	97	164878	46.570	ug/L	100
31) Carbon tetrachloride	5.54	117	86932	28.395	ug/L	100
33) Benzene	5.79	78	342724	38.464	ug/L	100
34) Trichloroethene	6.55	95	41924	18.265	ug/L	99
38) Bromodichloromethane	7.11	83	238158	74.934	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	412261	106.781	ug/L	99
46) Tetrachloroethene	8.56	164	140595	84.770	ug/L	96
51) Chlorobenzene	9.45	112	393525	65.955	ug/L	99
52) Ethylbenzene	9.57	91	489160	48.445	ug/L	99
64) 1,3-Dichlorobenzene	11.74	146	82734	18.917	ug/L	97

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Quant Title : VOC Analysis
QLast Update : Thu Oct 08 01:13:08 2020
Response via : Initial Calibration

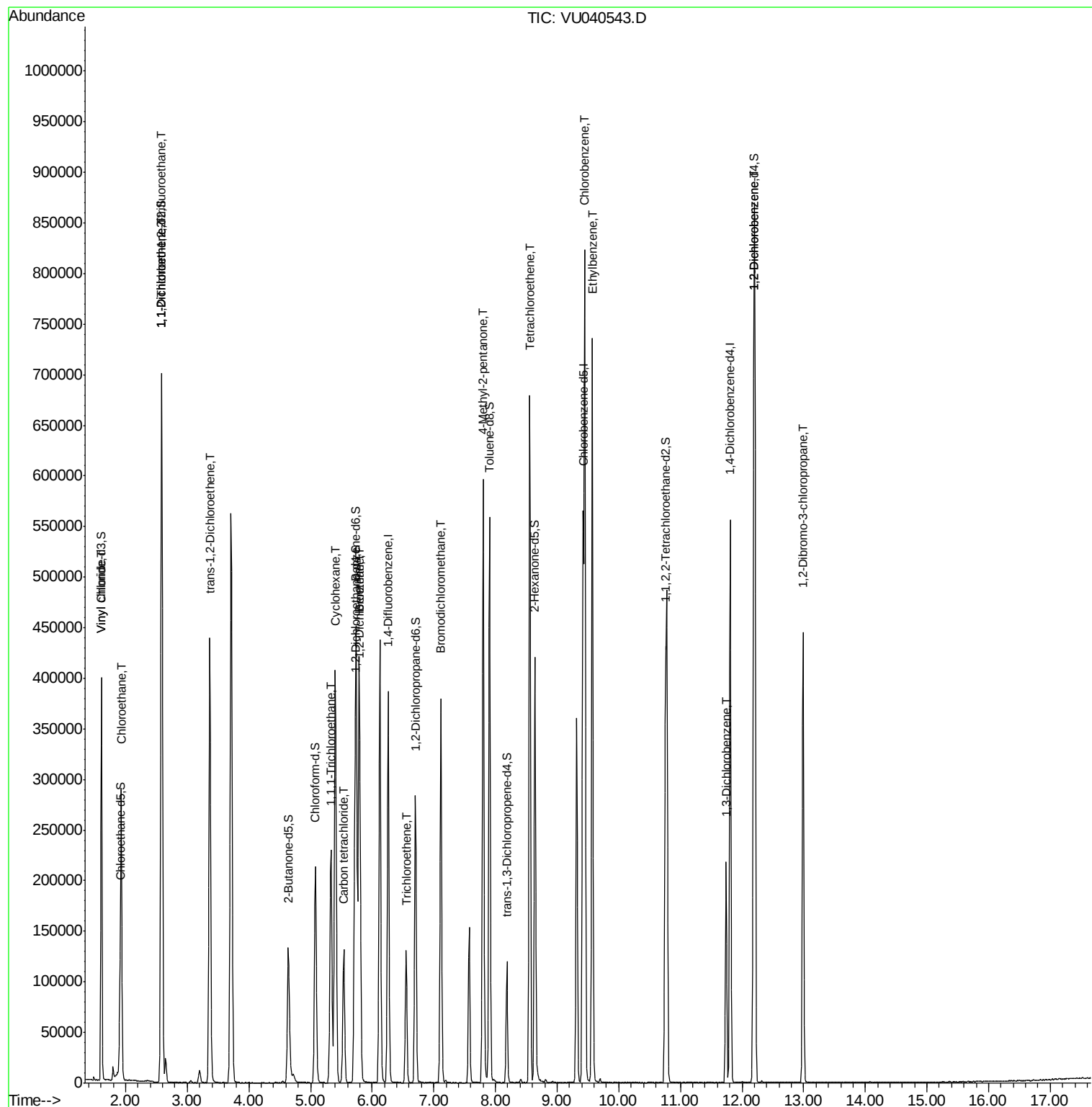
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.21	146	274042	62.548	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.99	75	108835	127.680	ug/L	98

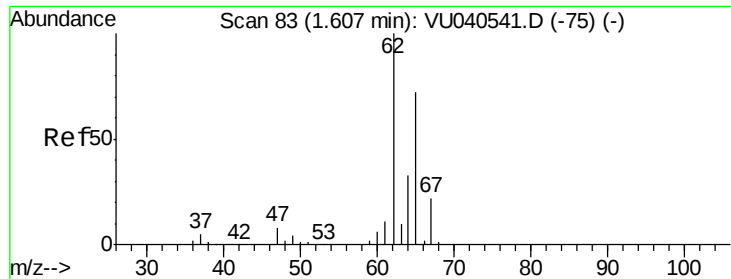
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 61.768 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040543.D

Acq: 07 Oct 2020 14:14

Instrument :

MSVOA_U

ClientSampleId :

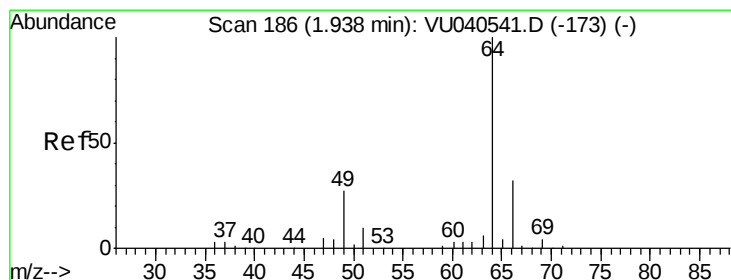
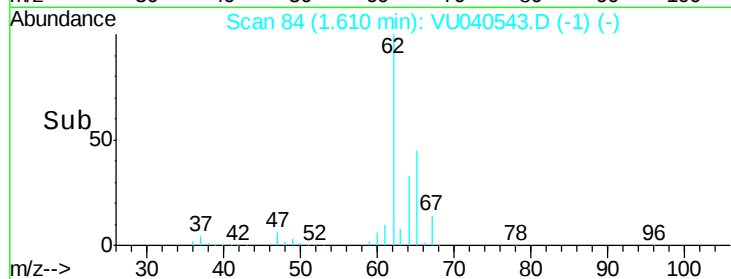
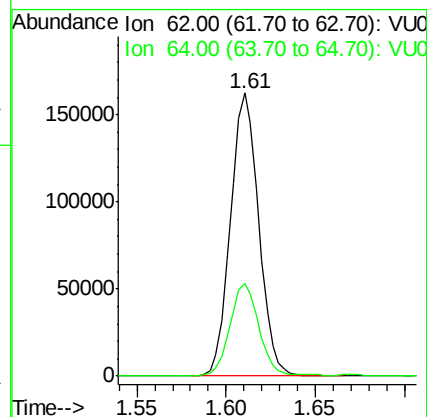
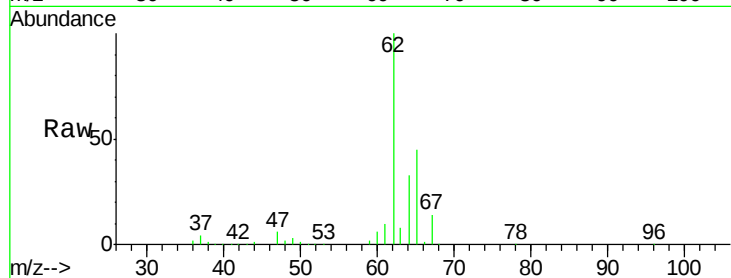
X2N55

Tot Ion: 62 Resp: 178445

Ion Ratio Lower Upper

62 100

64 32.9 23.4 43.6



#8

Chloroethane

Concen: 102.799 ug/L

RT: 1.93 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU040543.D

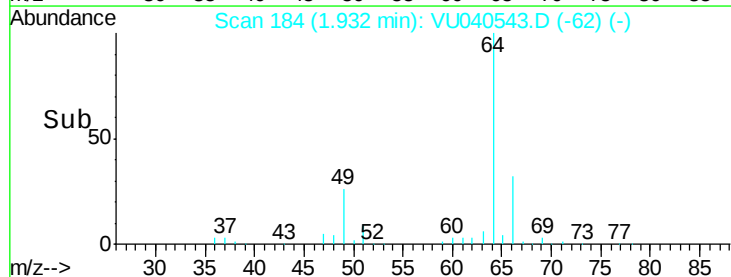
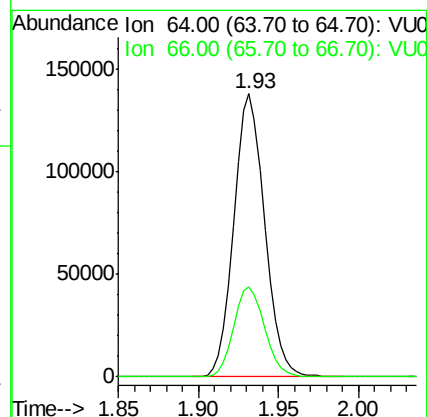
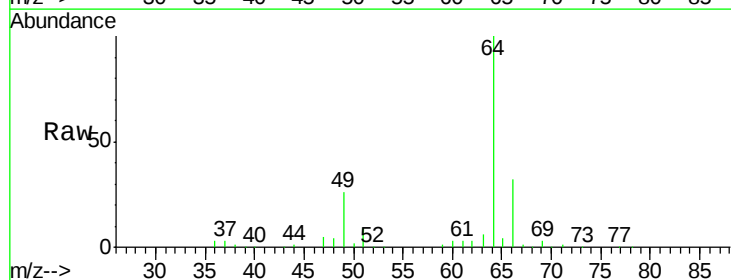
Acq: 07 Oct 2020 14:14

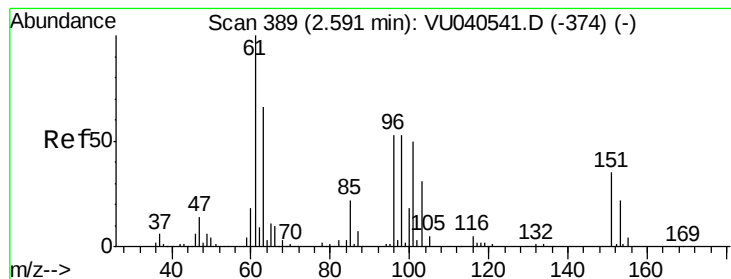
Tgt Ion: 64 Resp: 179185

Ion Ratio Lower Upper

64 100

66 31.9 22.5 41.9





#10

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

Concen: 55.754 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040543.D

Acq: 07 Oct 2020 14:14

Instrument :

MSVOA_U

ClientSampled :

X2N55

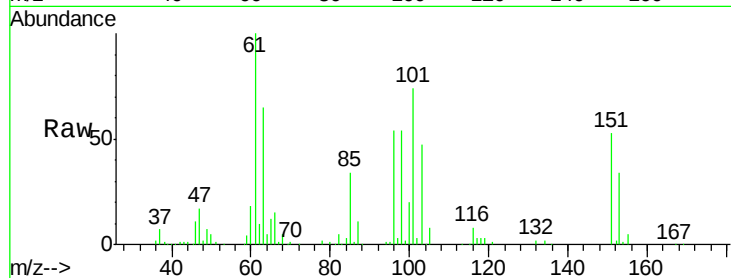
Tot Ion:101 Resp: 123162

Ion Ratio Lower Upper

101 100

85 44.6 35.4 53.2

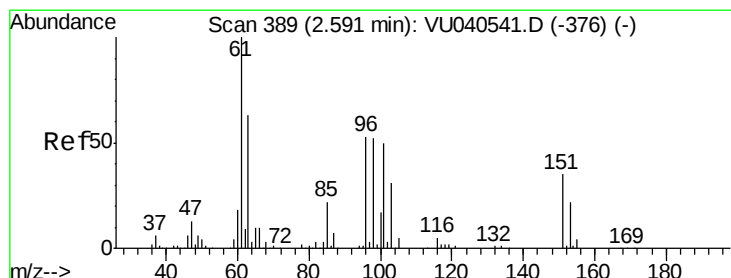
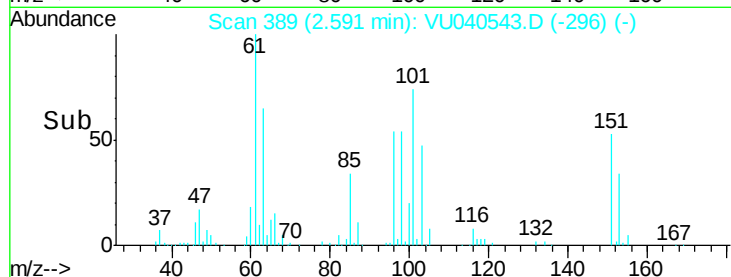
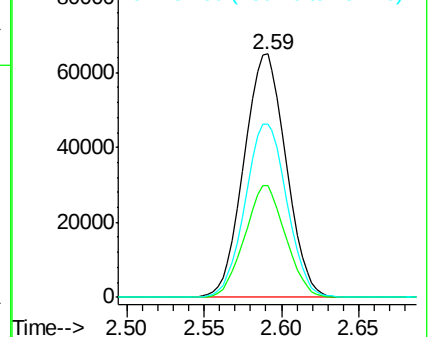
151 70.6 54.8 82.2



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: 38.575 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU040543.D

Acq: 07 Oct 2020 14:14

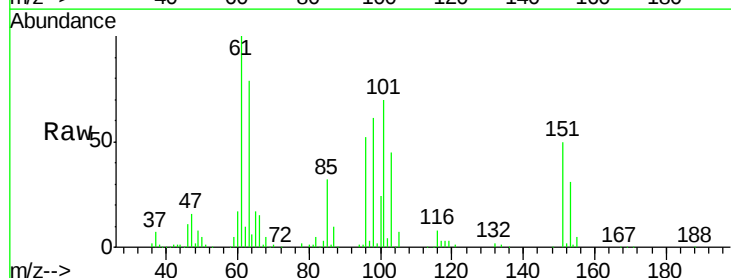
Tgt Ion: 96 Resp: 78785

Ion Ratio Lower Upper

96 100

61 193.8 135.0 250.8

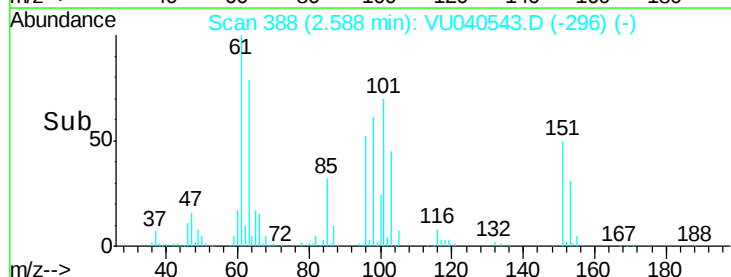
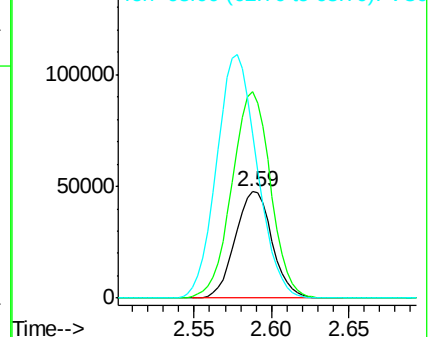
63 154.0 101.4 188.2

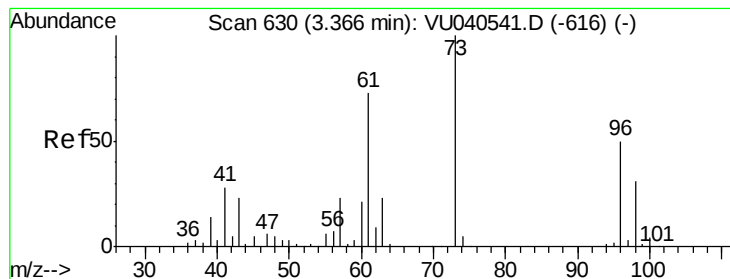


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 79.320 ug/L

RT: 3.37 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU040543.D

Acq: 07 Oct 2020 14:14

Instrument :

MSVOA_U

ClientSampleId :

X2N55

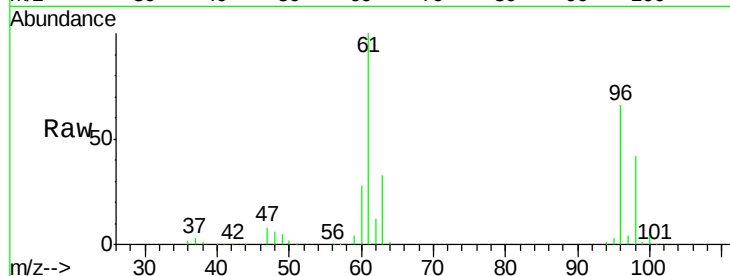
Tot Ion: 96 Resp: 172546

Ion Ratio Lower Upper

96 100

61 151.7 109.6 203.6

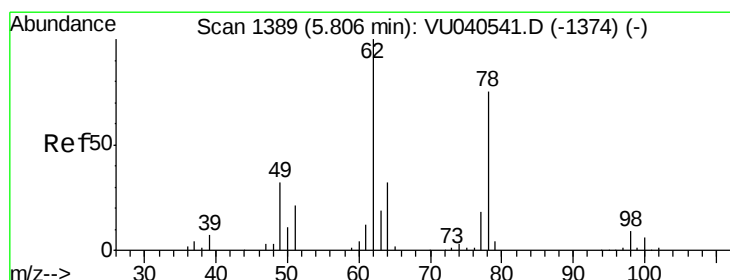
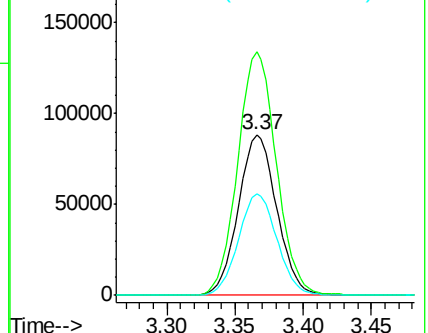
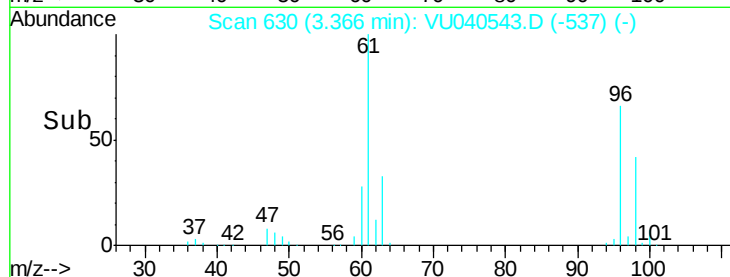
98 63.3 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VU040543.D (-537) (-)

Ion 61.00 (60.70 to 61.70): VU040543.D (-537) (-)

Ion 98.00 (97.70 to 98.70): VU040543.D (-537) (-)



#27

1,2-Dichloroethane

Concen: 28.132 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VU040543.D

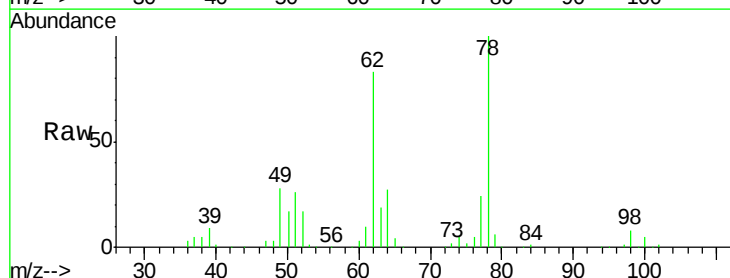
Acq: 07 Oct 2020 14:14

Tgt Ion: 62 Resp: 102707

Ion Ratio Lower Upper

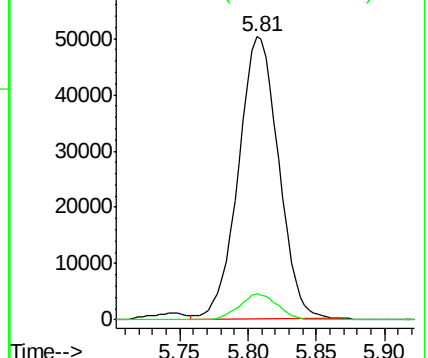
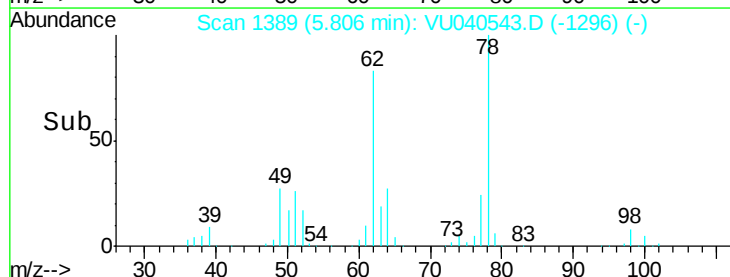
62 100

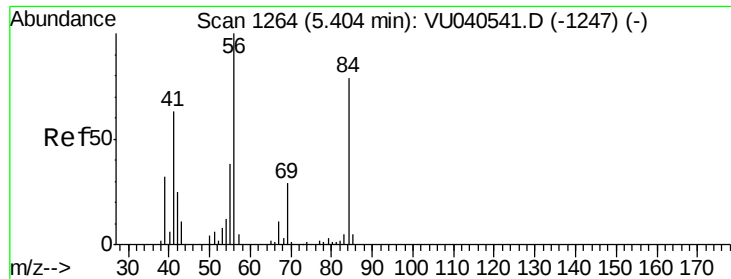
98 9.0 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU040543.D (-1296) (-)

Ion 98.00 (97.70 to 98.70): VU040543.D (-1296) (-)

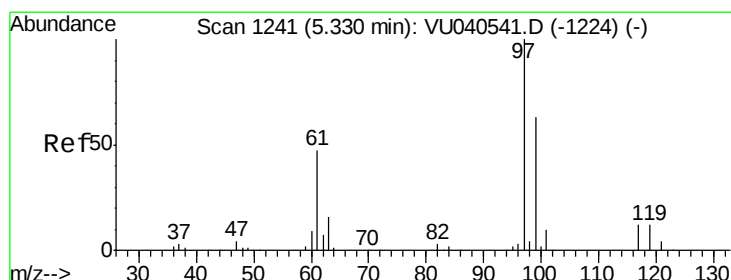
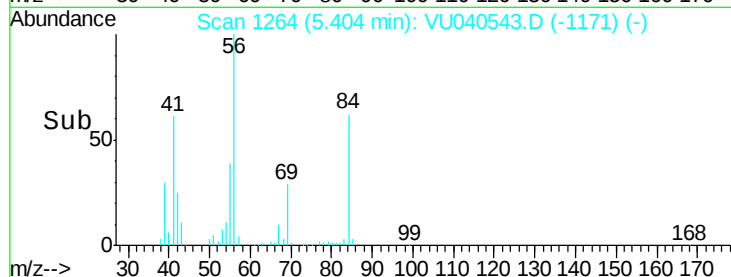
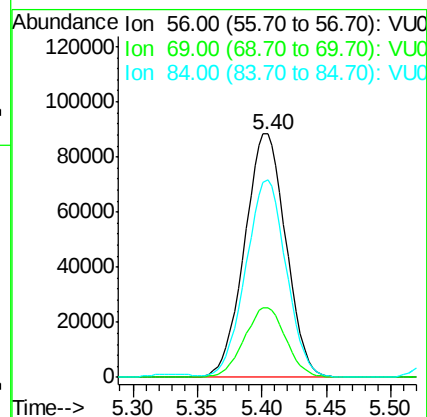
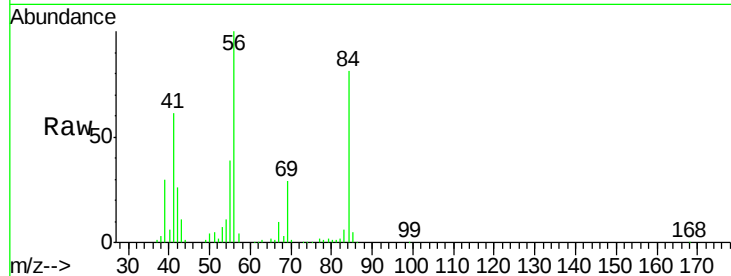




#29
Cyclohexane
Concen: 53.540 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VU040543.D
Acq: 07 Oct 2020 14:14

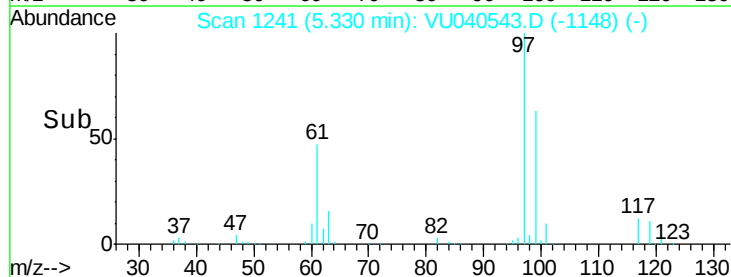
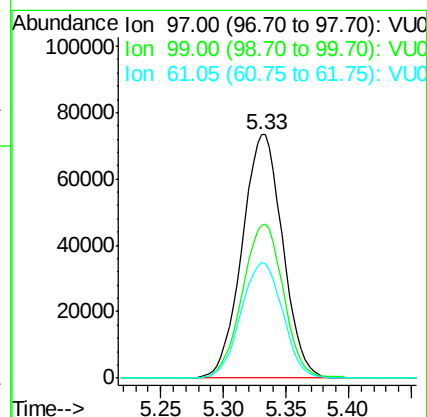
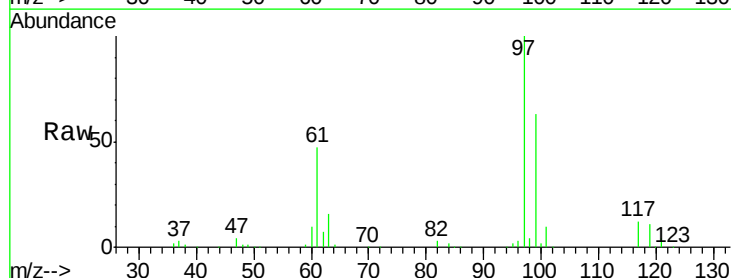
Instrument :
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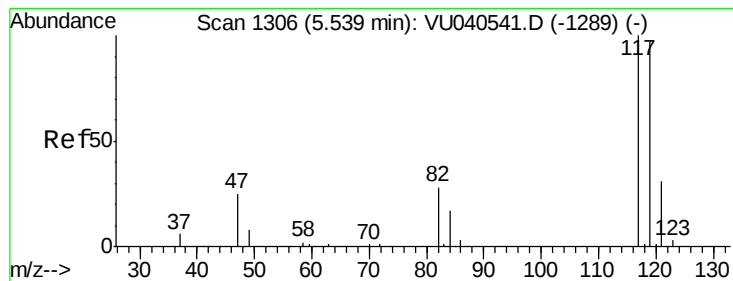
Tot Ion: 56 Resp: 197621
Ion Ratio Lower Upper
56 100
69 28.7 22.6 34.0
84 79.8 63.1 94.7



#30
1,1,1-Trichloroethane
Concen: 46.570 ug/L
RT: 5.33 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VU040543.D
Acq: 07 Oct 2020 14:14

Tgt Ion: 97 Resp: 164878
Ion Ratio Lower Upper
97 100
99 63.7 51.0 76.6
61 48.7 39.4 59.2





#31

Carbon tetrachloride

Concen: 28.395 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU040543.D

Acq: 07 Oct 2020 14:14

Instrument :

MSVOA_U

ClientSampleId :

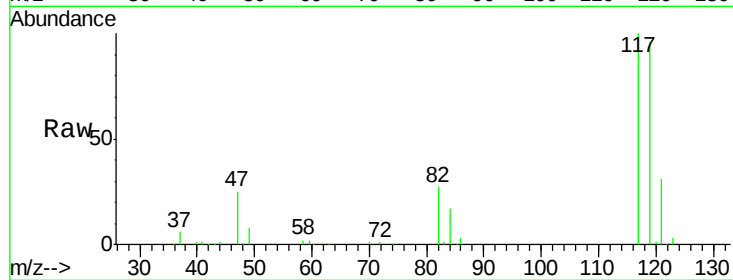
X2N55

Tot Ion:117 Resp: 86932

Ion Ratio Lower Upper

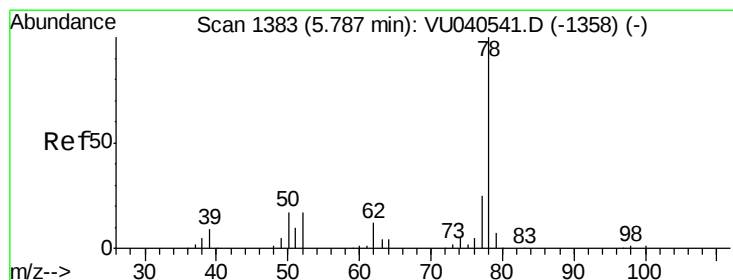
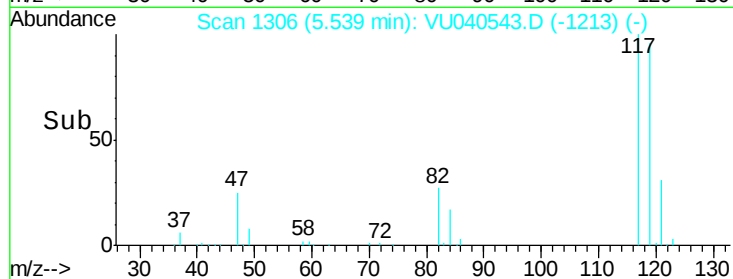
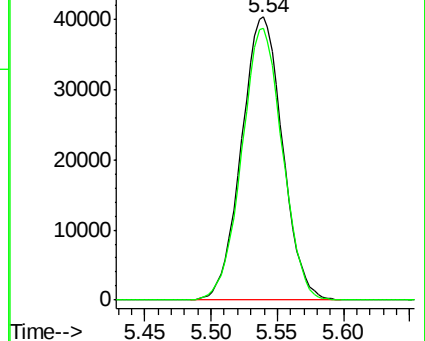
117 100

119 95.0 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 38.464 ug/L

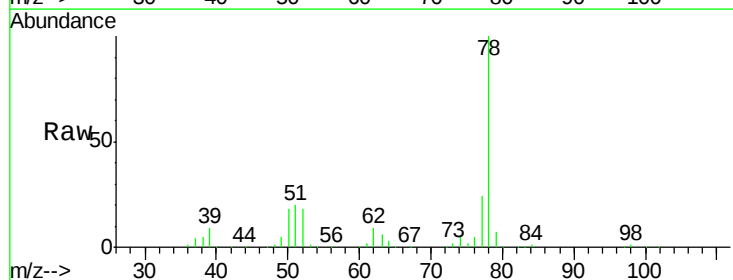
RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VU040543.D

Acq: 07 Oct 2020 14:14

Tgt Ion: 78 Resp: 342724



Abundance Ion 78.00 (77.70 to 78.70): VU0

200000

150000

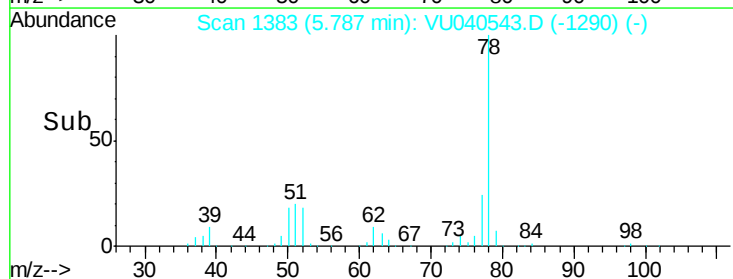
100000

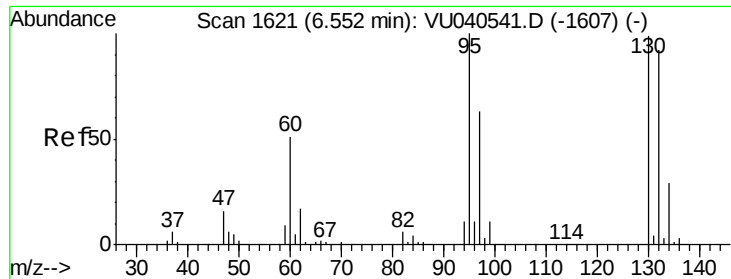
50000

0

Time-->

5.70 5.80 5.90

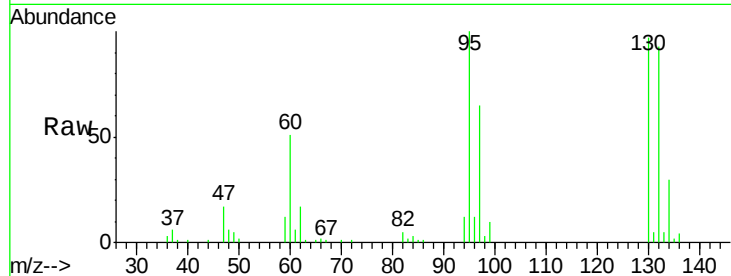




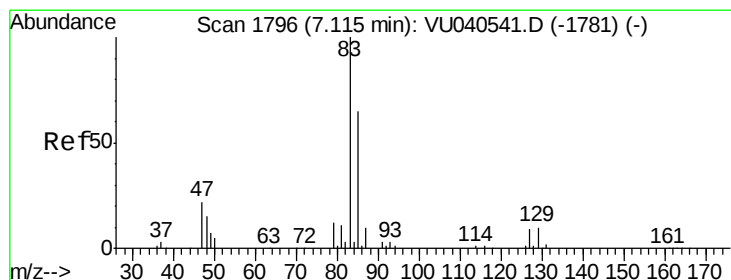
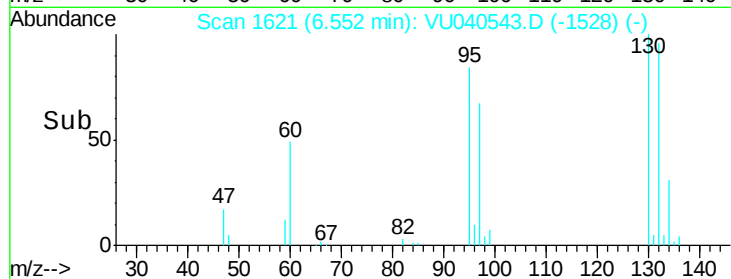
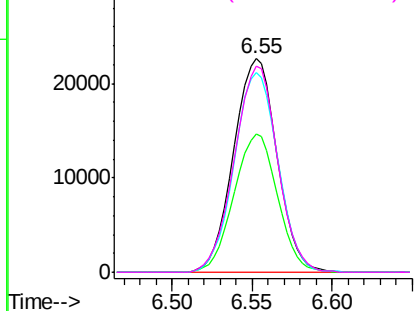
#34
 Trichloroethene
 Concen: 18.265 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU040543.D
 Acq: 07 Oct 2020 14:14

Instrument :
 MSVOA_U
 ClientSampleId :
 X2N55

Tot Ion: 95 Resp: 41924
 Ion Ratio Lower Upper
 95 100
 97 64.9 44.3 82.3
 132 93.3 64.2 119.2
 130 96.7 67.3 125.1

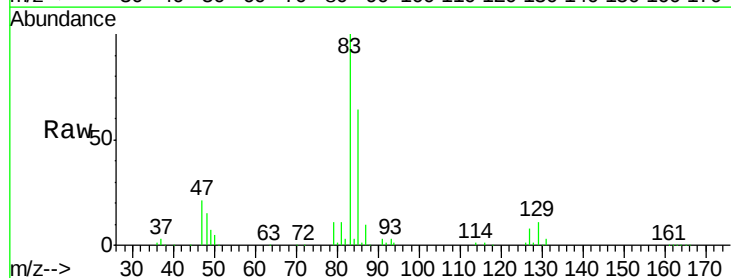


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

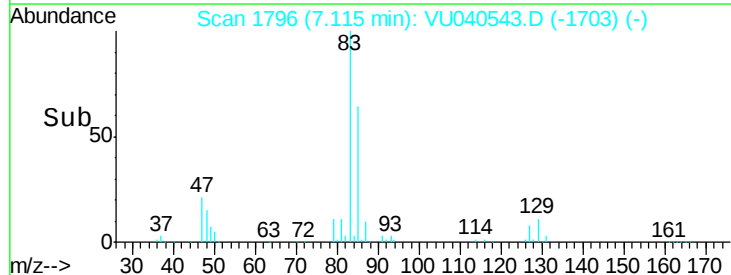
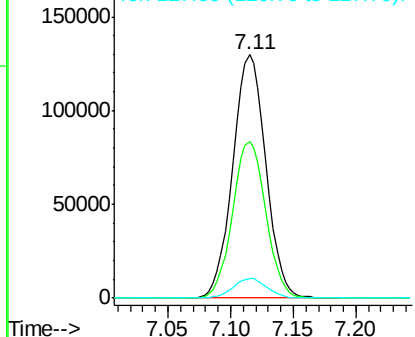


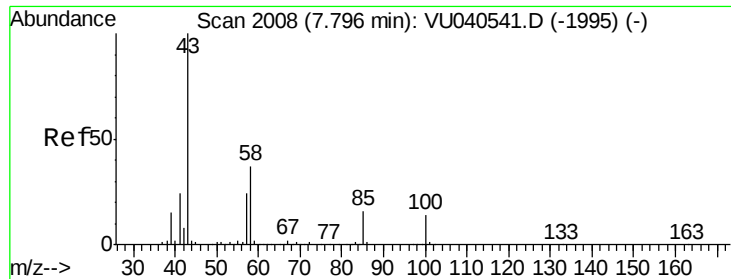
#38
 Bromodichloromethane
 Concen: 74.934 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VU040543.D
 Acq: 07 Oct 2020 14:14

Tgt Ion: 83 Resp: 238158
 Ion Ratio Lower Upper
 83 100
 85 64.1 45.2 84.0
 127 8.2 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0
 Ion 127.00 (126.70 to 127.70): V

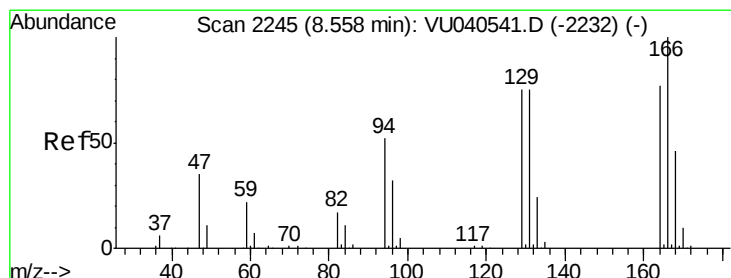
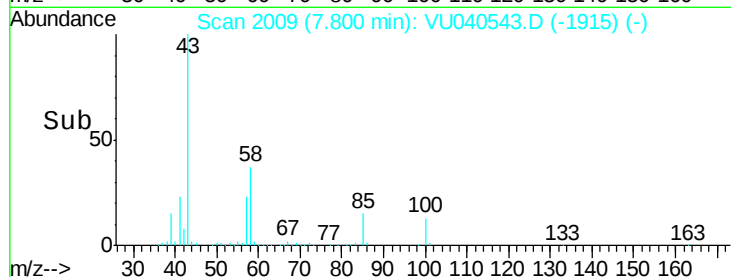
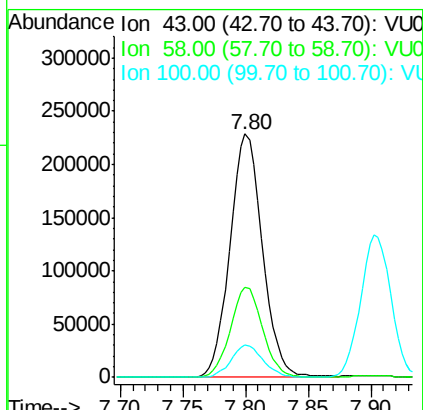
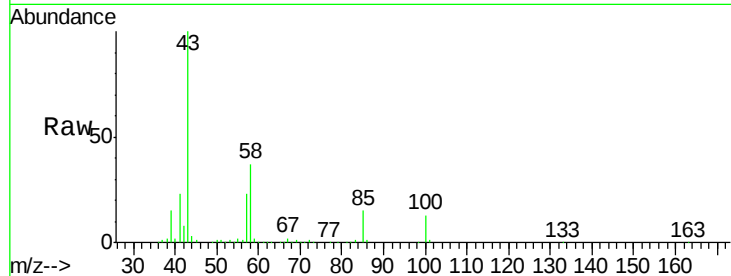




#40
4-Methyl-2-pentanone
Concen: 106.781 ug/L
RT: 7.80 min Scan# 2009
Delta R.T. 0.00 min
Lab File: VU040543.D
Acq: 07 Oct 2020 14:14

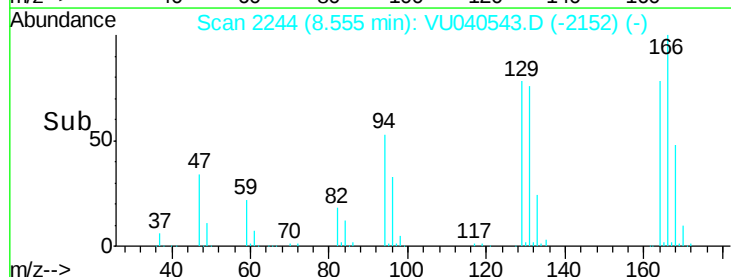
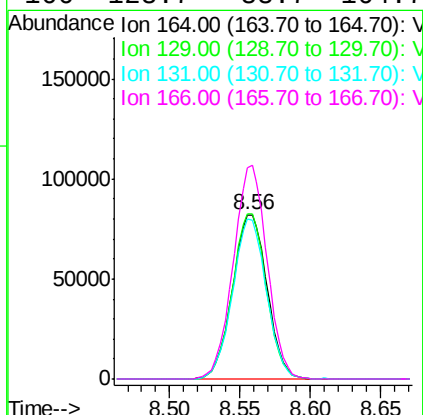
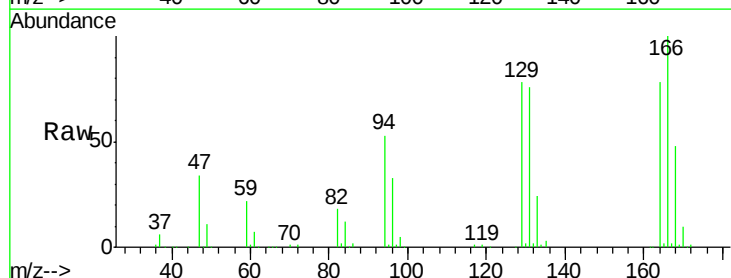
Instrument :
MSVOA_U
ClientSampleId :
X2N55

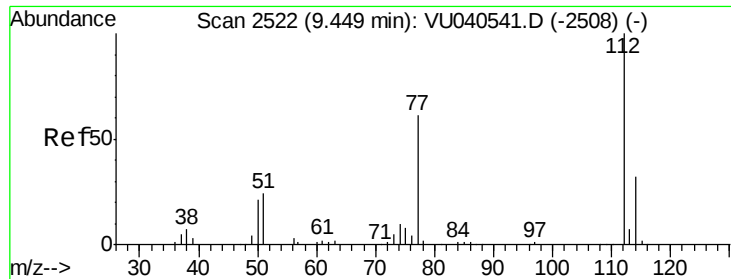
Tot Ion: 43 Resp: 412261
Ion Ratio Lower Upper
43 100
58 36.7 29.7 44.5
100 13.0 10.5 15.7



#46
Tetrachloroethene
Concen: 84.770 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU040543.D
Acq: 07 Oct 2020 14:14

Tgt Ion: 164 Resp: 140595
Ion Ratio Lower Upper
164 100
129 100.6 67.4 125.2
131 97.8 63.8 118.6
166 128.7 88.7 164.7

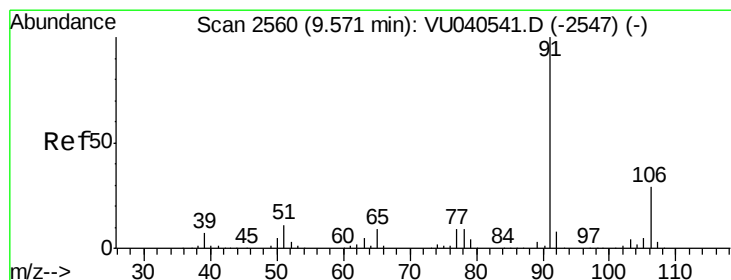
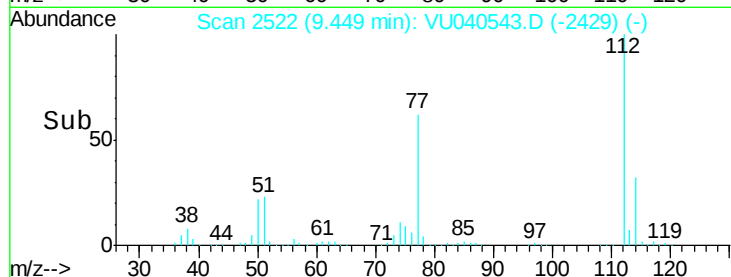
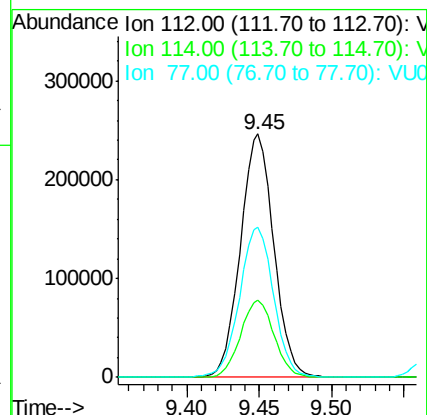
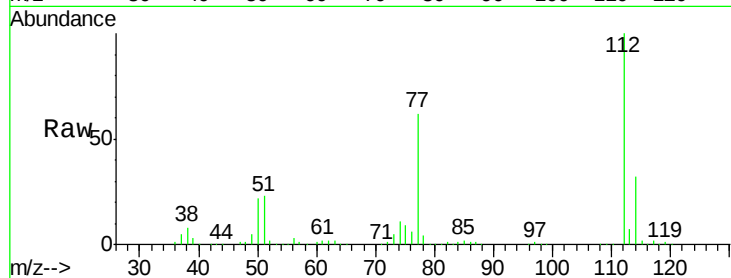




#51
Chlorobenzene
Concen: 65.955 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040543.D
Acq: 07 Oct 2020 14:14

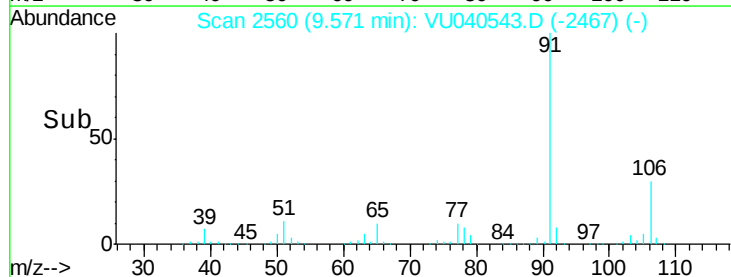
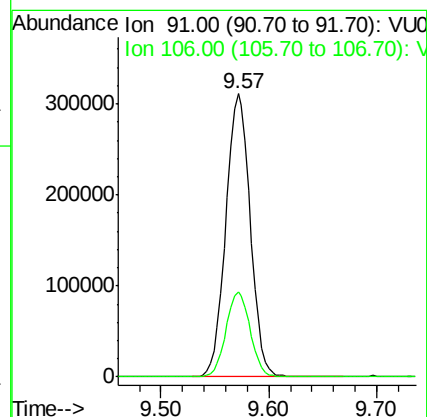
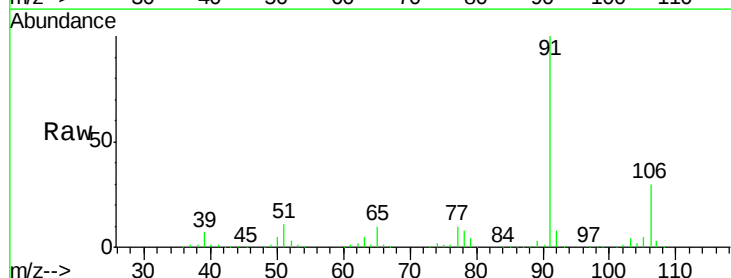
Instrument :
MSVOA_U
ClientSampleId :
X2N55

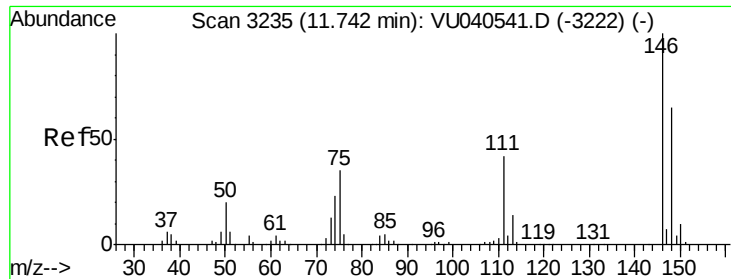
Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.1	41.1
77	61.6	50.4	75.6



#52
Ethylbenzene
Concen: 48.445 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040543.D
Acq: 07 Oct 2020 14:14

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.2	20.9	38.9

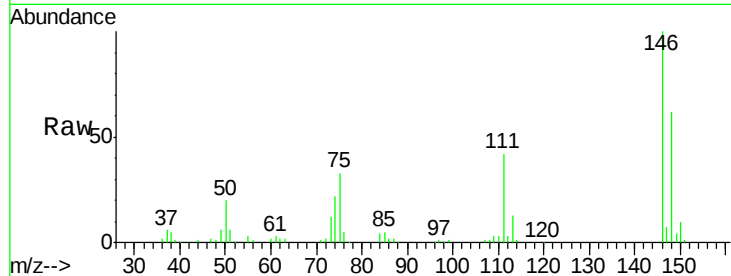




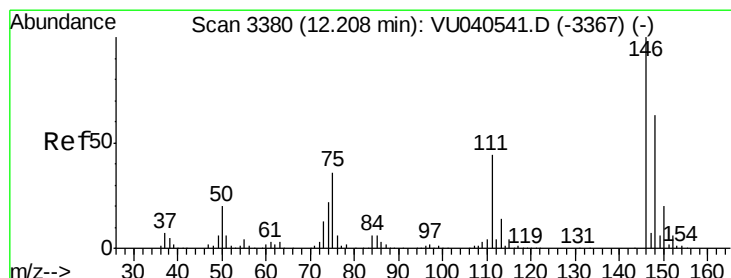
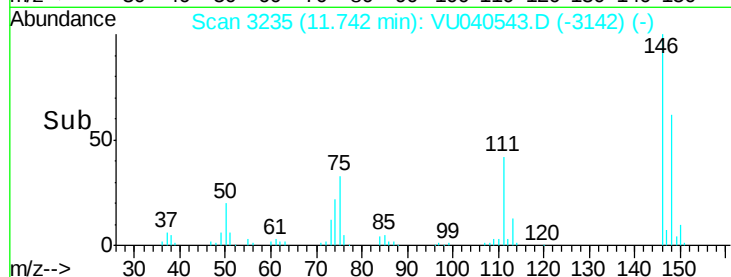
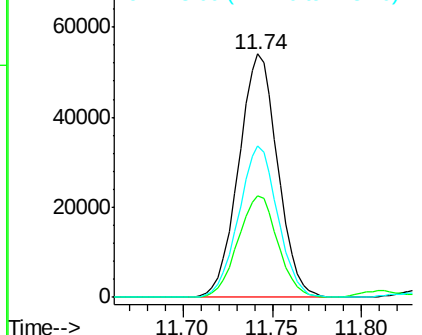
#64
 1,3-Dichlorobenzene
 Concen: 18.917 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU040543.D
 Acq: 07 Oct 2020 14:14

Instrument :
 MSVOA_U
 ClientSampleId :
 X2N55

Tot Ion:146 Resp: 82734
 Ion Ratio Lower Upper
 146 100
 111 41.9 30.8 57.2
 148 62.3 45.4 84.2

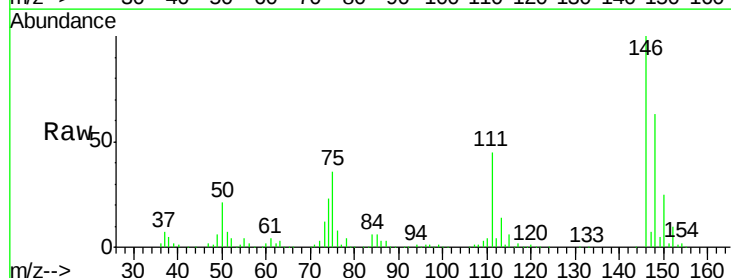


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

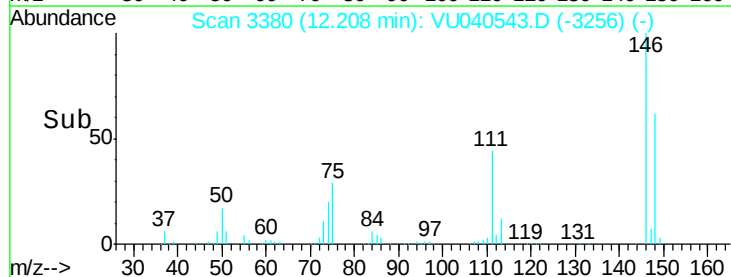
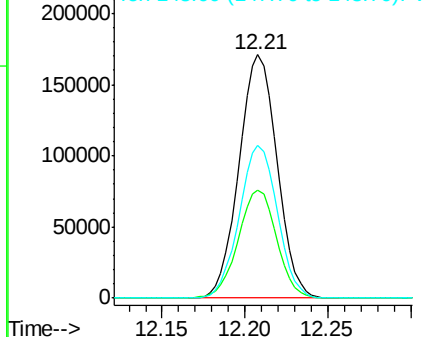


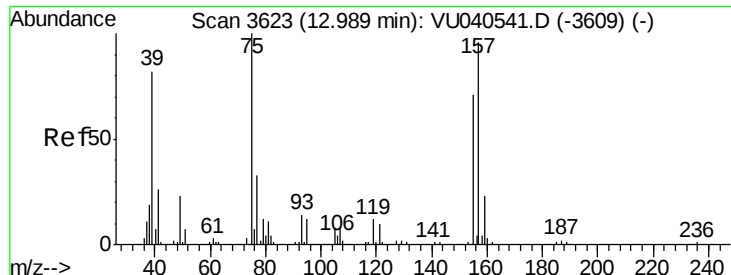
#67
 1,2-Dichlorobenzene
 Concen: 62.548 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040543.D
 Acq: 07 Oct 2020 14:14

Tgt Ion:146 Resp: 274042
 Ion Ratio Lower Upper
 146 100
 111 44.6 35.7 53.5
 148 62.5 50.6 75.8



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#68

1,2-Dibromo-3-chloropropane

Concen: 127.680 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU040543.D

Acq: 07 Oct 2020 14:14

Instrument :

MSVOA_U

ClientSampleId :

X2N55

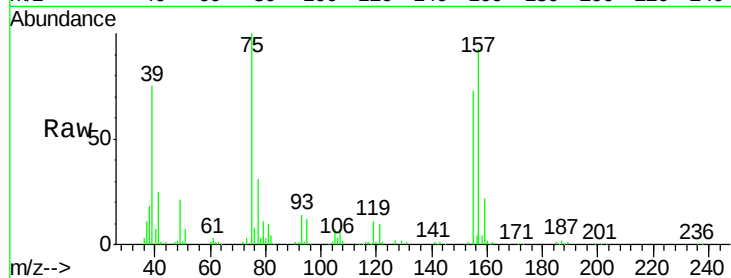
Tot Ion: 75 Resp: 108835

Ion Ratio Lower Upper

75 100

155 73.3 61.0 91.6

157 93.4 73.5 110.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

