

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070120\
 Data File : VV017294.D
 Acq On : 01 Jul 2020 17:10
 Operator : SY/MD
 Sample : L3150-13
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 ETYJ8

Manual Integrations
 APPROVED

MMDadoda
 7/15/2020 2:43:48 PM

Quant Time: Jul 15 14:35:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 15 01:40:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	173331m	5.00	ug/L	0.02
28) Chlorobenzene-d5	8.89	117	183046	5.00	ug/L	0.02
61) 1,4-Dichlorobenzene-d4	11.28	152	90374	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	46551	4.47	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.40%
7) Chloroethane-d5	1.58	69	39016	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.20%
11) 1,1-Dichloroethene-d2	2.14	63	756586	38.21	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	764.20%#
20) 2-Butanone-d5	3.97	46	122762	46.30	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	92.60%
24) Chloroform-d	4.40	84	116853	5.25	ug/L	0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.00%
26) 1,2-Dichloroethane-d4	5.08	65	67762	5.74	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.80%
32) Benzene-d6	5.11	84	214881m	4.53	ug/L	0.04
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
36) 1,2-Dichloropropane-d6	6.03	67	3206532m	225.53	ug/L	-0.06
Spiked Amount	5.000	Range	60 - 140	Recovery	=	4510.60%#
41) Toluene-d8	7.38	98	216956	4.87	ug/L	0.05
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
45) trans-1,3-Dichloropropene-	7.68	79	31248	5.28	ug/L	0.03
Spiked Amount	5.000	Range	55 - 130	Recovery	=	105.60%
48) 2-Hexanone-d5	8.13	63	123406	54.70	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.40%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	52497	5.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	86199	5.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	365229	32.111	ug/L	98
9) Trichlorofluoromethane	1.77	101	6460	0.351	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	383262	41.749	ug/L	98
12) 1,1-Dichloroethene	2.14	96	1175752	141.338	ug/L #	65
13) Acetone	2.22	43	11520	8.595	ug/L	67
16) Methylene chloride	2.53	84	85111	9.554	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	314315	35.656	ug/L	97
19) 1,1-Dichloroethane	3.23	63	1756945	88.705	ug/L	98
22) cis-1,2-Dichloroethene	3.95	96	45820219m	3801.039	ug/L	
25) Chloroform	4.42	83	33872	1.566	ug/L	92
29) 1,1,1-Trichloroethane	4.67	97	25234455	1150.672	ug/L	98
34) Trichloroethene	5.95	95	177254226m	12628.079	ug/L	
39) cis-1,3-Dichloropropene	7.05	75	2569	0.146	ug/L #	75
40) 4-Methyl-2-pentanone	7.29	43	204282	29.816	ug/L	98
42) Toluene	7.45	91	3372043	60.505	ug/L	98
47) 1,1,2-Trichloroethane	7.89	97	172119	20.450	ug/L	97
49) Tetrachloroethene	8.03	164	2144815	189.840	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 15 01:40:01 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Chlorobenzene	8.92	112	88012	2.533	ug/L	96
54) Ethylbenzene	9.05	91	143479	2.412	ug/L	98
55) m,p-xylene	9.17	106	118976	5.099	ug/L	99
56) o-xylene	9.58	106	48916	2.247	ug/L	99
58) Isopropylbenzene	9.96	105	6500	0.108	ug/L #	93

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

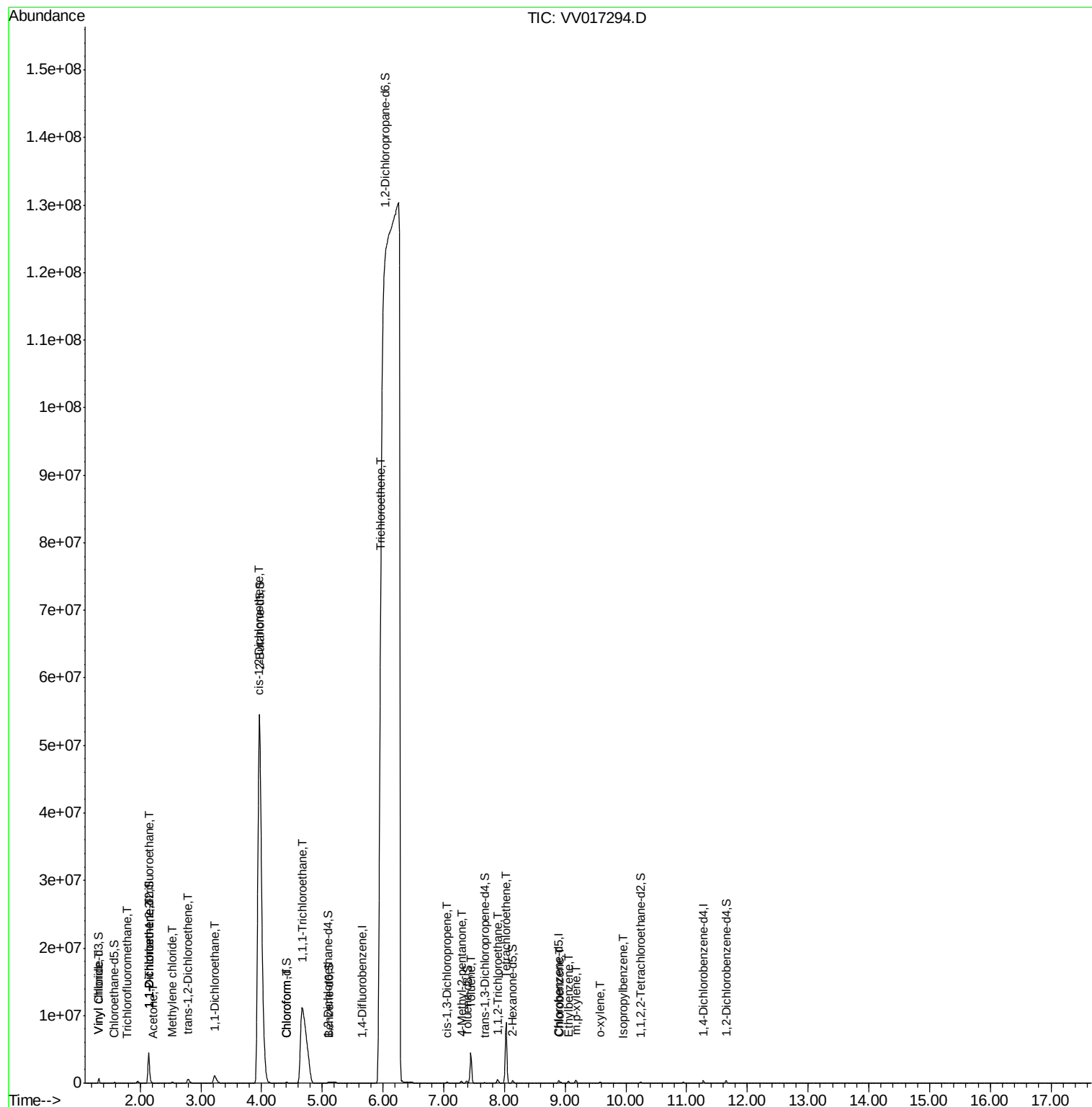
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV070120\
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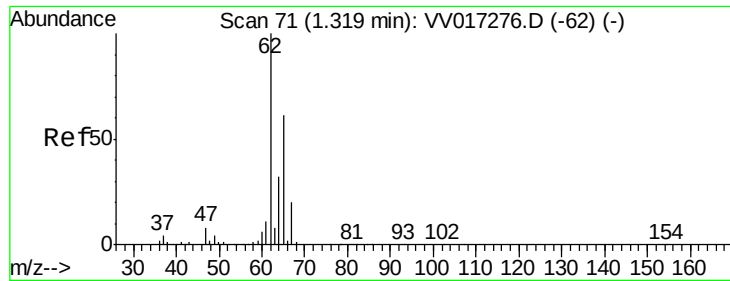
Instrument :
MSVOA_V
ClientSampleId :
ETYJ8

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#5

Vinyl chloride

Concen: 32.111 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

Instrument :

MSVOA_V

ClientSampleId :

ETYJ8

Tot Ion: 62 Resp: 365229

Ion Ratio Lower Upper

62 100

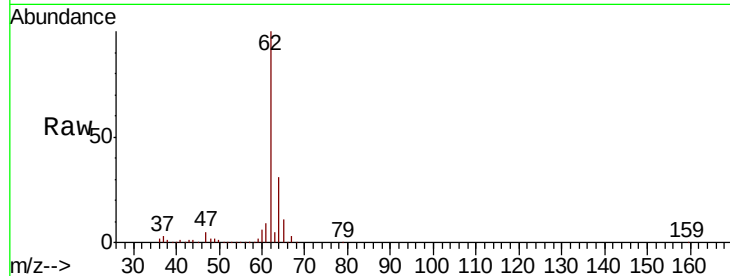
64 31.1 22.5 41.7

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Abundance Ion 62.00 (61.70 to 62.70): VV017276.D (-62) (-)

Ion 64.10 (63.80 to 64.80): VV017294.D (-1) (-)

1.32

400000

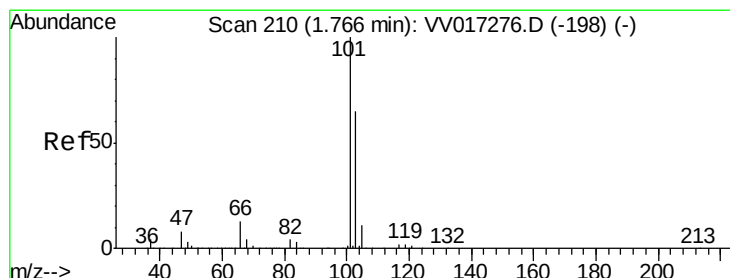
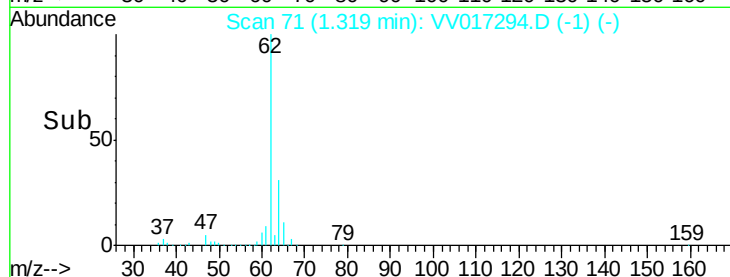
300000

200000

100000

0

Time--> 1.25 1.30 1.35 1.40



#9

Trichlorofluoromethane

Concen: 0.351 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV017294.D

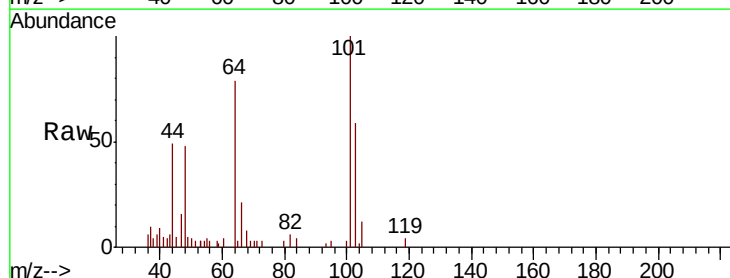
Acq: 01 Jul 2020 17:10

Tgt Ion: 101 Resp: 6460

Ion Ratio Lower Upper

101 100

103 63.5 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VV017276.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV017294.D (-117) (-)

1.77

5000

4000

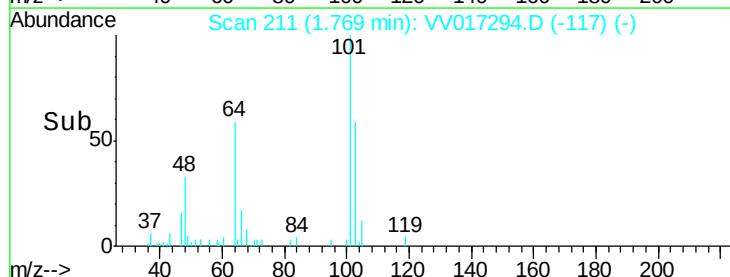
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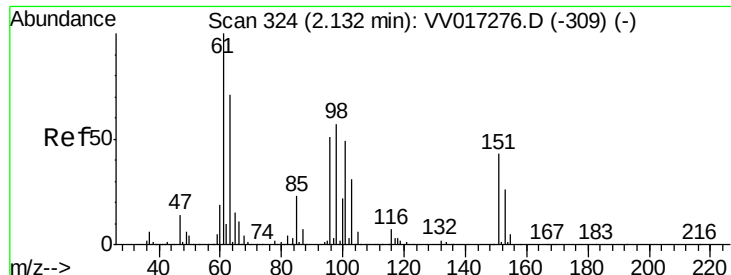
2000

1000

0

Time--> 1.70 1.75 1.80





#10

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

Concen: 41.749 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.01 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

Instrument :

MSVOA_V

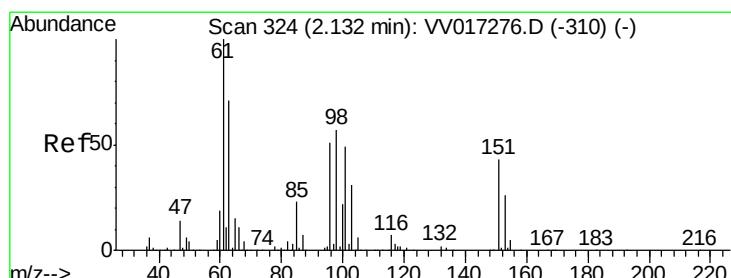
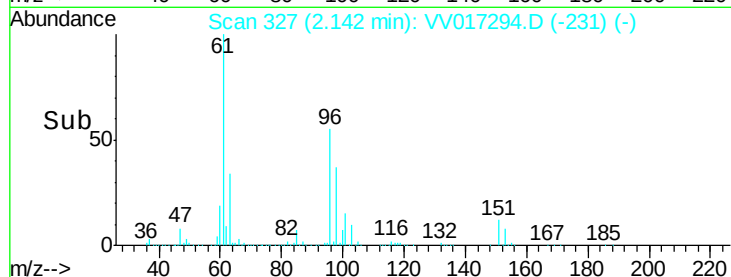
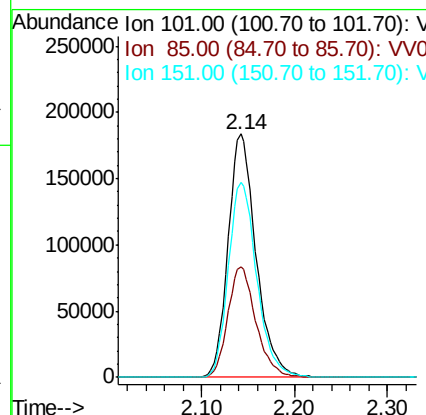
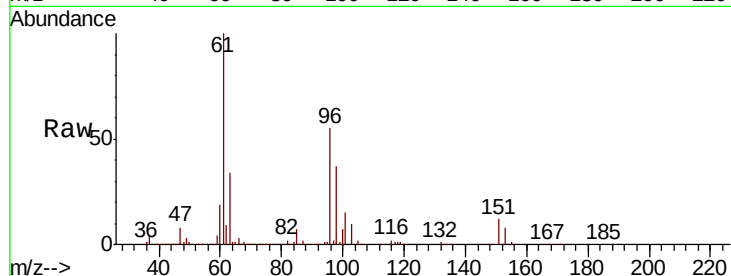
ClientSampled :

ETYJ8

Tot Ion:	101	Resp:	383262
Ion Ratio	Lower	Upper	
101	100		
85	45.7	35.4	53.2
151	81.7	63.9	95.9

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#12

1,1-Dichloroethene

Concen: 141.338 ug/L

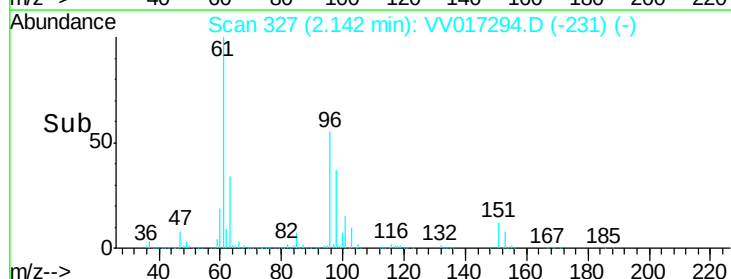
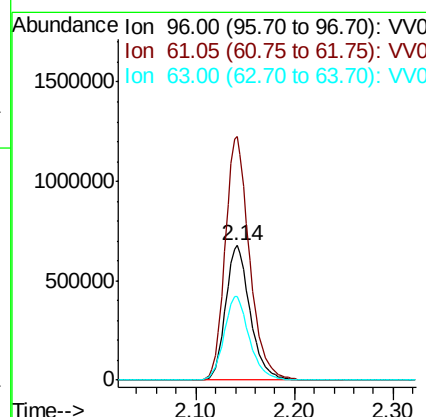
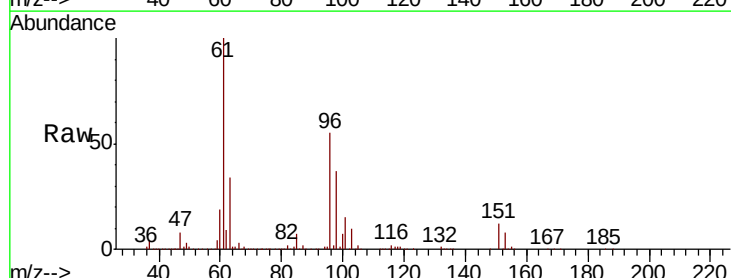
RT: 2.14 min Scan# 327

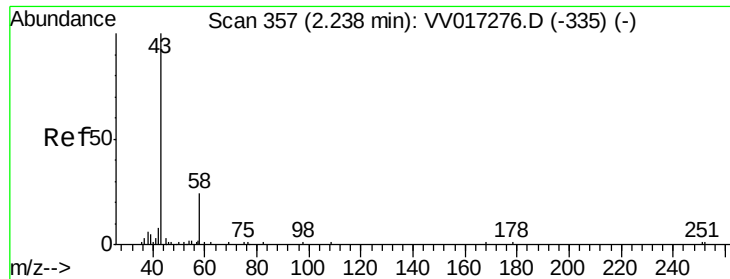
Delta R.T. 0.01 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

Tgt Ion:	96	Resp:	1175752
Ion Ratio	Lower	Upper	
96	100		
61	181.2	125.0	232.2
63	62.2	109.8	203.8#





#13

Acetone

Concen: 8.595 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.02 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

Instrument :

MSVOA_V

ClientSampleId :

ETYJ8

Tot Ion: 43 Resp: 11520

Ion Ratio Lower Upper

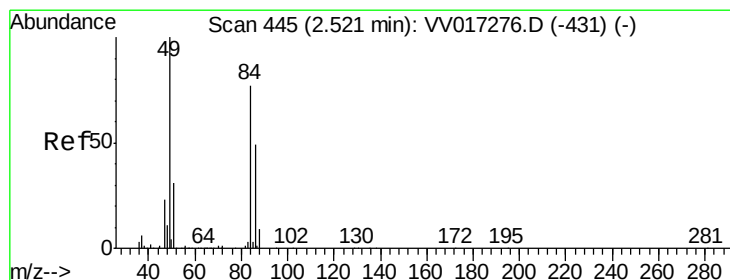
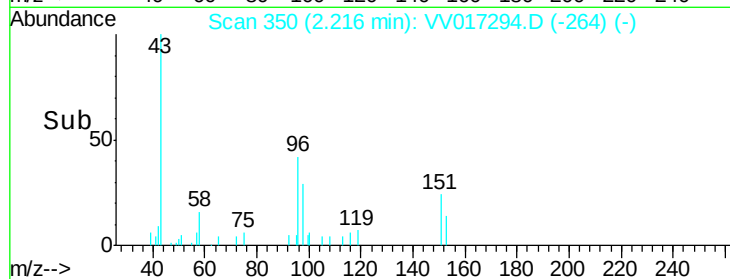
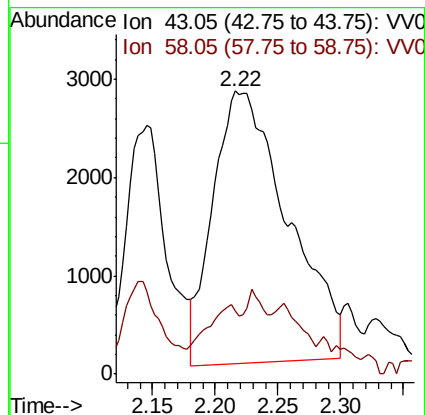
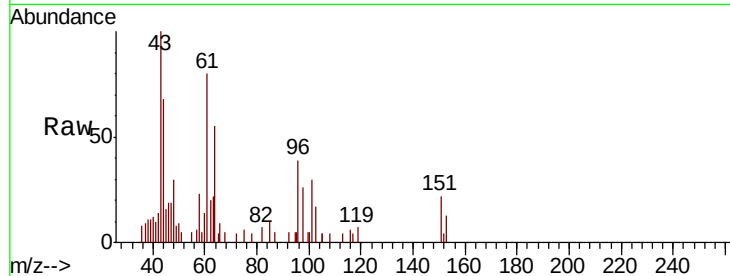
43 100

58 11.5 0.0 58.4

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#16

Methylene chloride

Concen: 9.554 ug/L

RT: 2.53 min Scan# 448

Delta R.T. 0.01 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

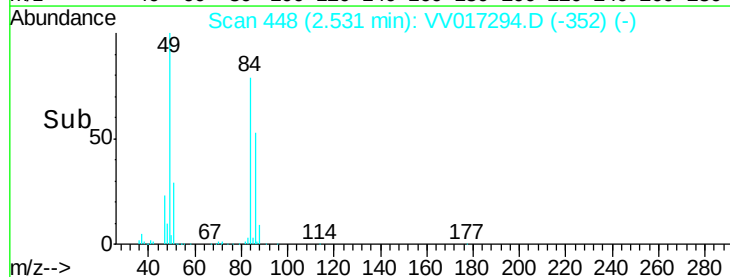
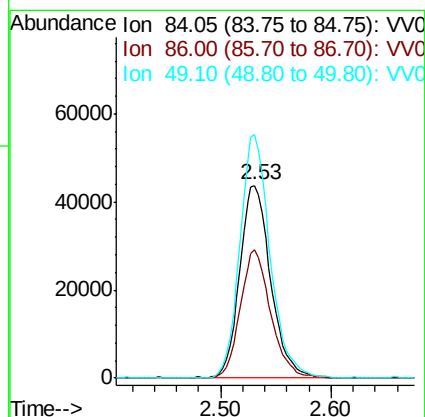
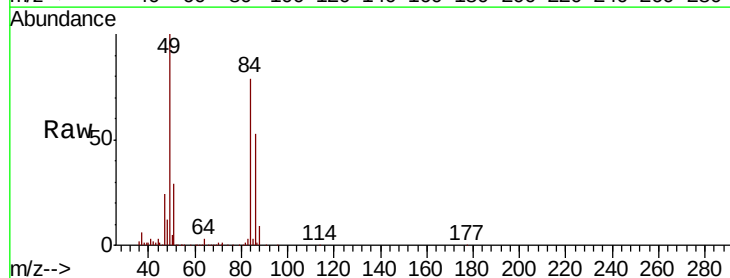
Tgt Ion: 84 Resp: 85111

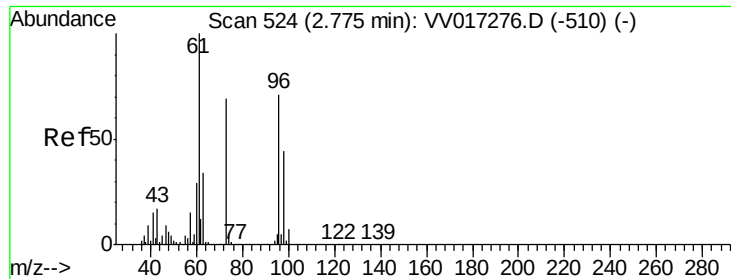
Ion Ratio Lower Upper

84 100

86 66.6 45.8 85.0

49 126.5 89.6 166.4





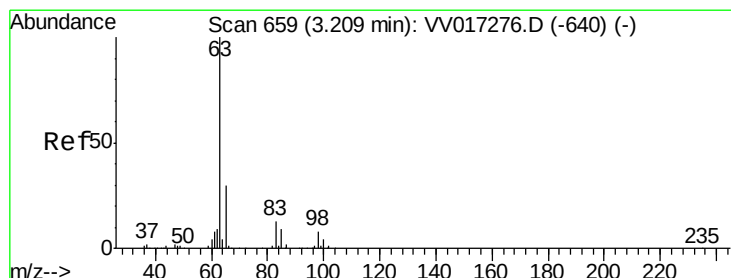
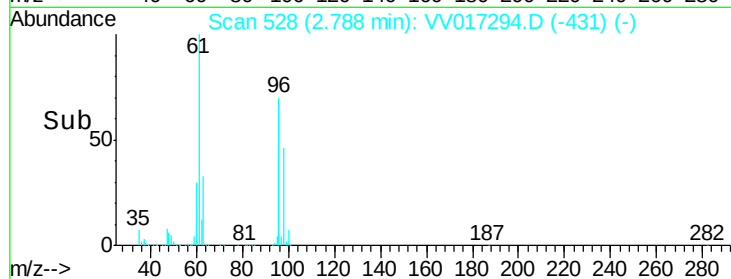
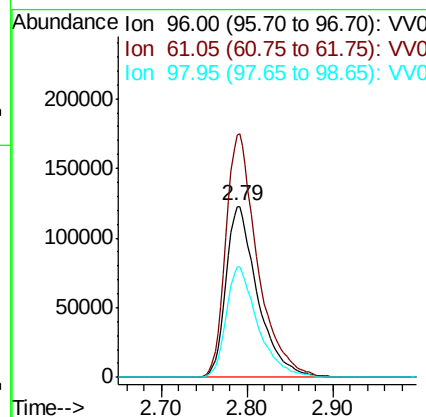
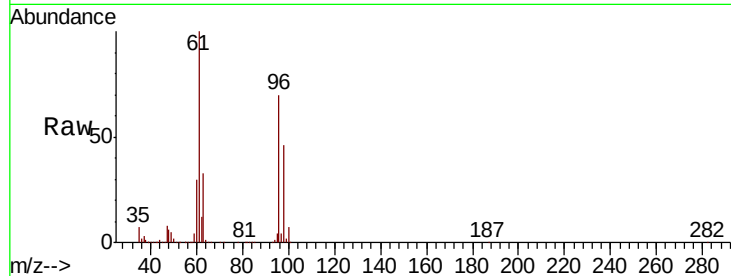
#18
trans-1,2-Dichloroethene
Concen: 35.656 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.01 min
Lab File: VV017294.D
Acq: 01 Jul 2020 17:10

Instrument :
MSVOA_V
ClientSampled :
ETYJ8

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.3	102.3	189.9
98	65.1	44.7	82.9

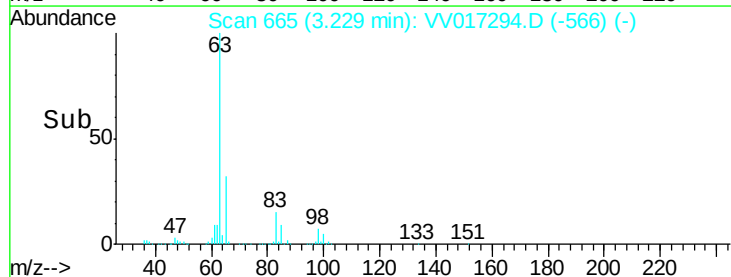
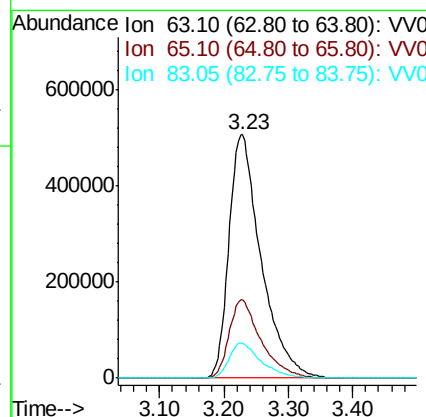
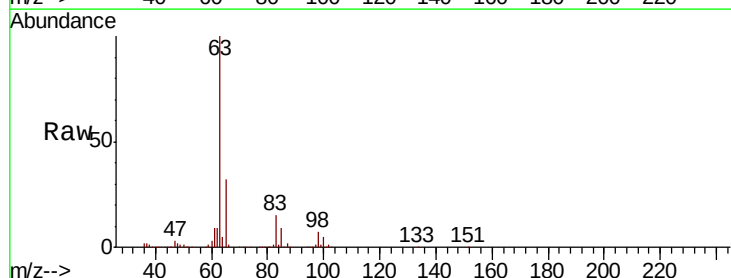
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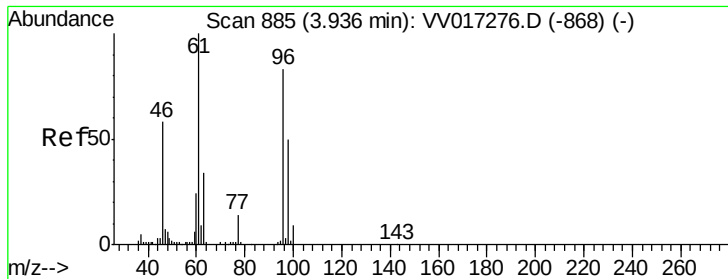
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#19
1,1-Dichloroethane
Concen: 88.705 ug/L
RT: 3.23 min Scan# 665
Delta R.T. 0.02 min
Lab File: VV017294.D
Acq: 01 Jul 2020 17:10

Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.2	21.8	40.4
83	14.6	9.7	17.9





#22

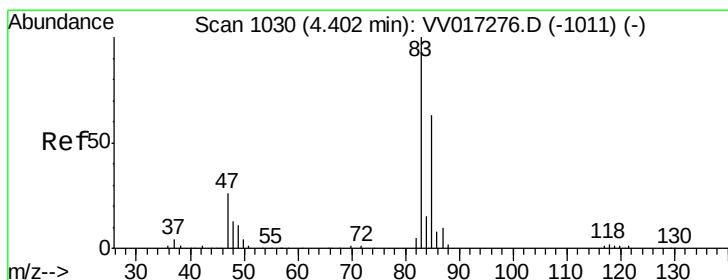
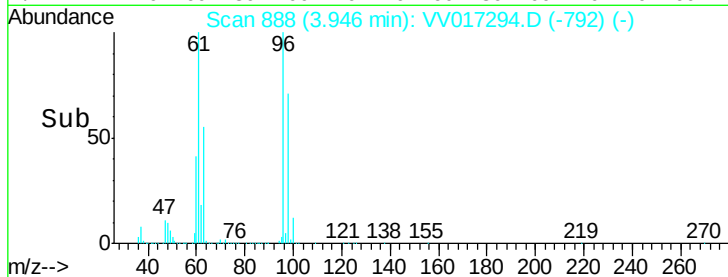
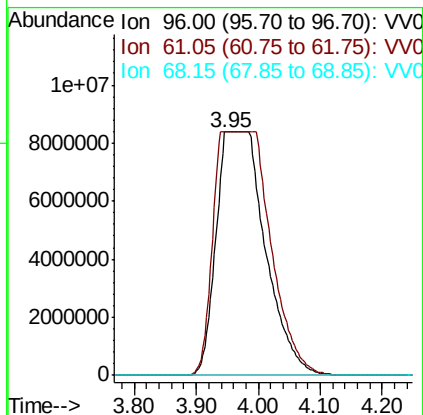
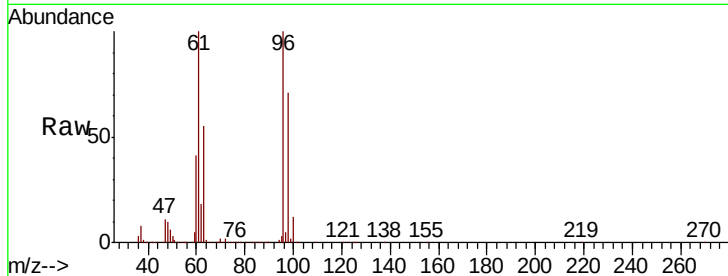
cis-1,2-Dichloroethene
 Concen: 3801.039 ug/L m
 RT: 3.95 min Scan# 888
 Delta R.T. 0.01 min
 Lab File: VV017294.D
 Acq: 01 Jul 2020 17:10

Instrument :
 MSVOA_V
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 ETYJ8

Tot Ion: 96 Resp: 45820219
 Ion Ratio Lower Upper
 96 100
 61 100.0 91.0 169.0
 68 0.0 0.0 0.0#

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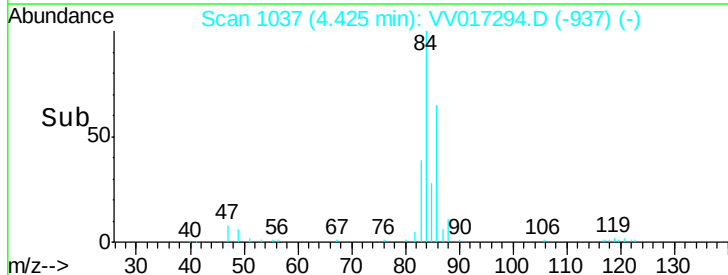
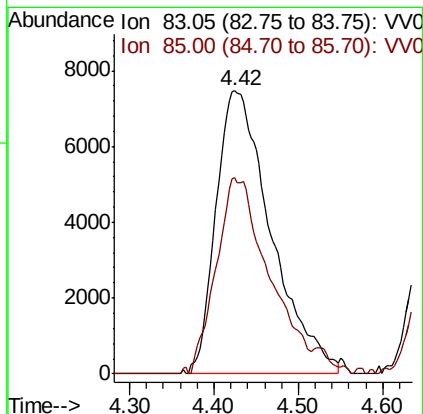
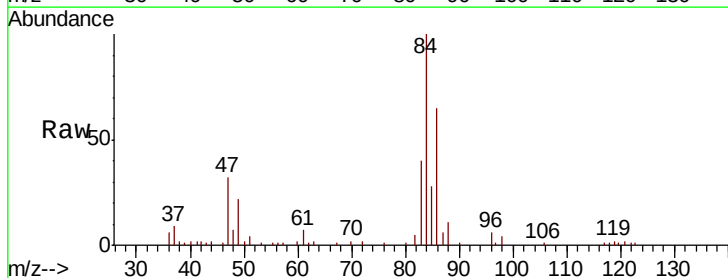
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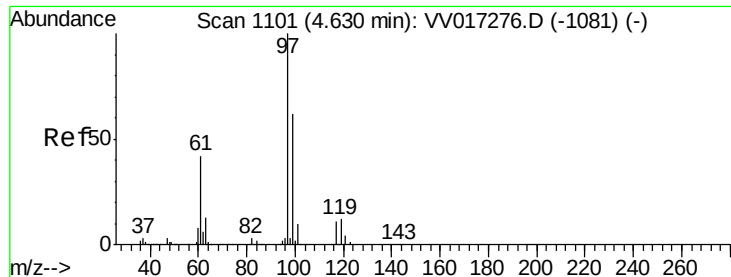


#25

Chloroform
 Concen: 1.566 ug/L
 RT: 4.42 min Scan# 1037
 Delta R.T. 0.02 min
 Lab File: VV017294.D
 Acq: 01 Jul 2020 17:10

Tgt Ion: 83 Resp: 33872
 Ion Ratio Lower Upper
 83 100
 85 69.2 44.2 82.2





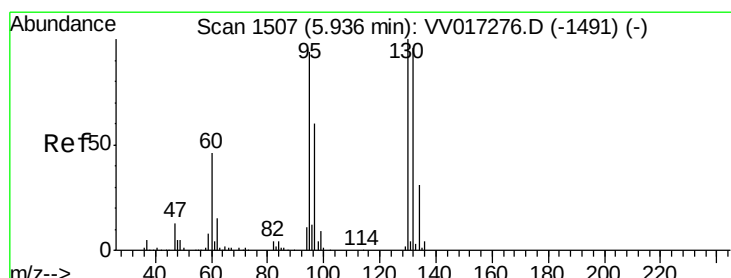
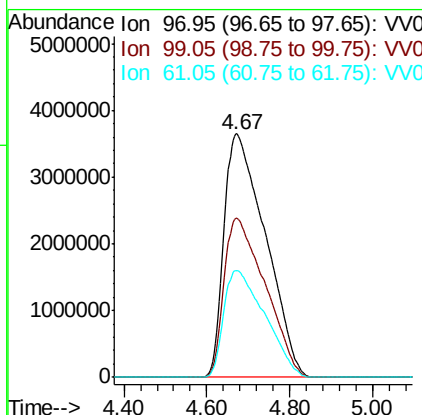
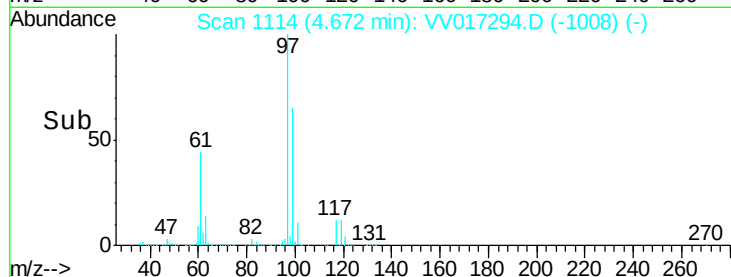
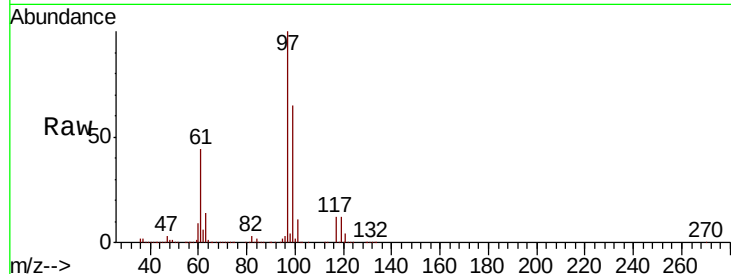
#29
1,1,1-Trichloroethane
Concen: 1150.672 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.04 min
Lab File: VV017294.D
Acq: 01 Jul 2020 17:10

Instrument :
MSVOA_V
ClientSampleId :
ETYJ8

Tot Ion: 97 Resp:25234455
Ion Ratio Lower Upper
97 100
99 64.9 50.3 75.5
61 43.7 36.0 54.0

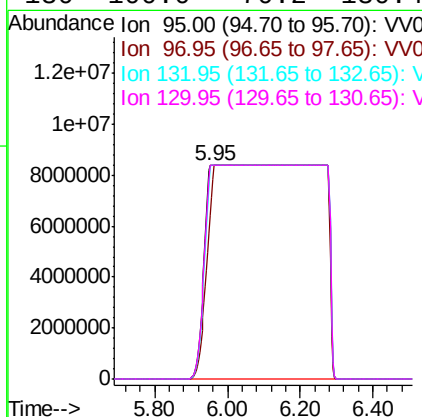
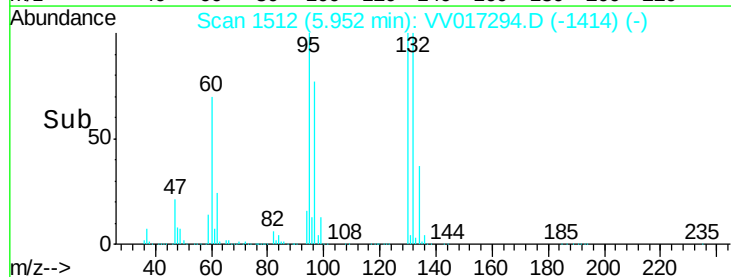
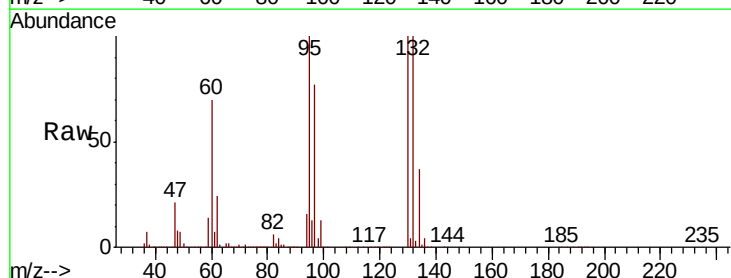
Manual Integrations
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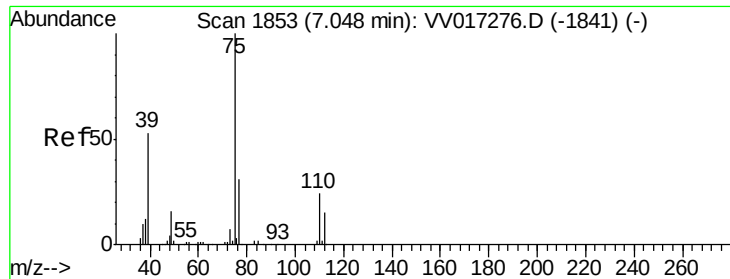
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#34
Trichloroethene
Concen: 12628.079 ug/L m
RT: 5.95 min Scan# 1512
Delta R.T. 0.02 min
Lab File: VV017294.D
Acq: 01 Jul 2020 17:10

Tgt Ion: 95 Resp:177254226
Ion Ratio Lower Upper
95 100
97 76.7 45.3 84.1
132 99.6 68.8 127.8
130 100.0 70.2 130.4





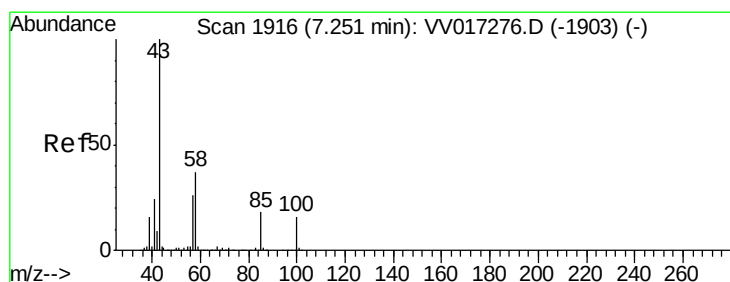
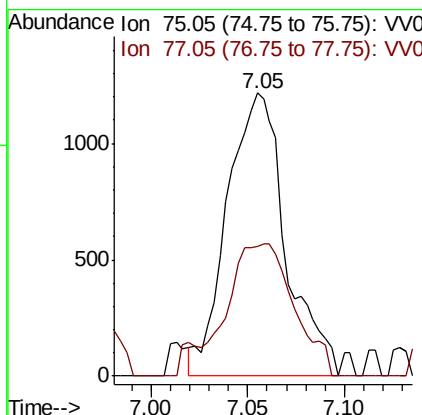
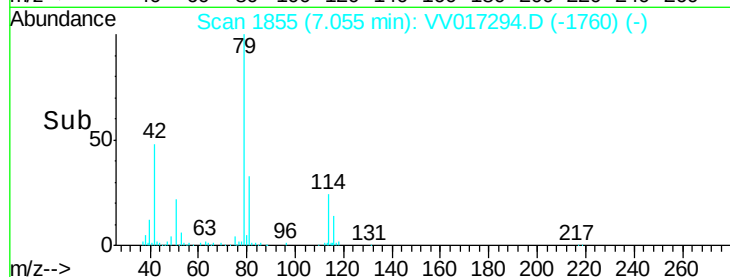
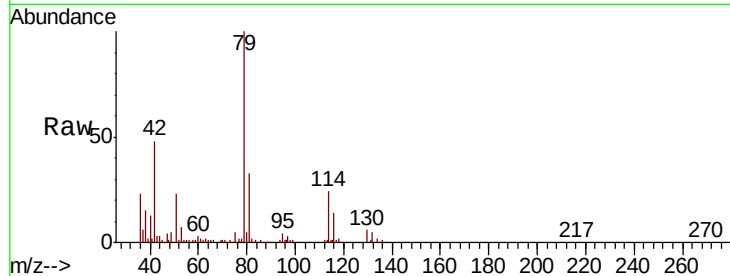
#39
 cis-1,3-Dichloropropene
 Concen: 0.146 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV017294.D
 Acq: 01 Jul 2020 17:10

Instrument :
 MSVOA_V
 ClientSampleId :
 ETYJ8

Tot Ion: 75 Resp: 2569
 Ion Ratio Lower Upper
 75 100
 77 46.0 22.3 41.5#

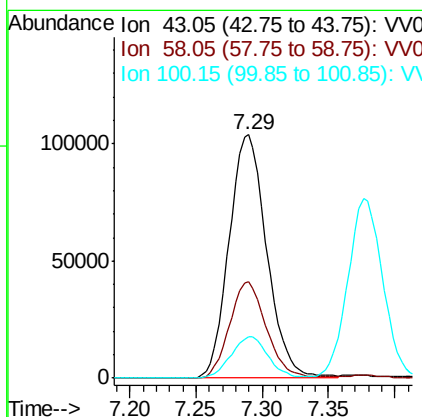
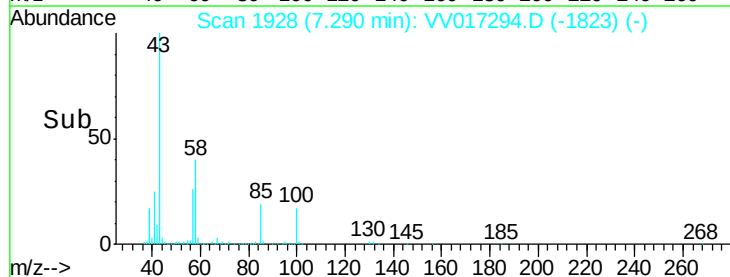
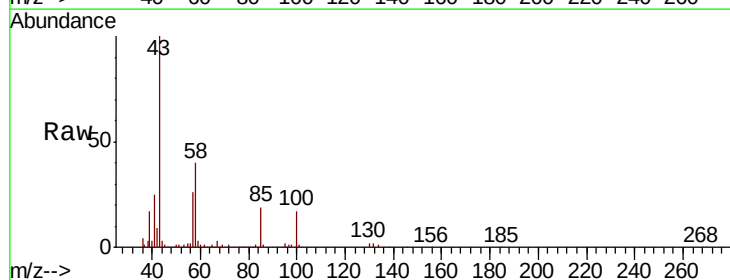
Manual Integrations
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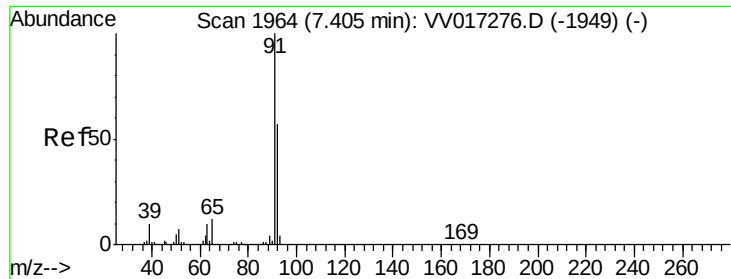
MMDadoda
 7/15/2020 2:43:48 PM



#40
 4-Methyl-2-pentanone
 Concen: 29.816 ug/L
 RT: 7.29 min Scan# 1928
 Delta R.T. 0.04 min
 Lab File: VV017294.D
 Acq: 01 Jul 2020 17:10

Tgt Ion: 43 Resp: 204282
 Ion Ratio Lower Upper
 43 100
 58 38.9 30.4 45.6
 100 16.9 12.7 19.1





#42

Toluene

Concen: 60.505 ug/L

RT: 7.45 min Scan# 1977

Delta R.T. 0.04 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

Instrument :

MSVOA_V

ClientSampleId :

ETYJ8

Tot Ion: 91 Resp: 3372043

Ion Ratio Lower Upper

91 100

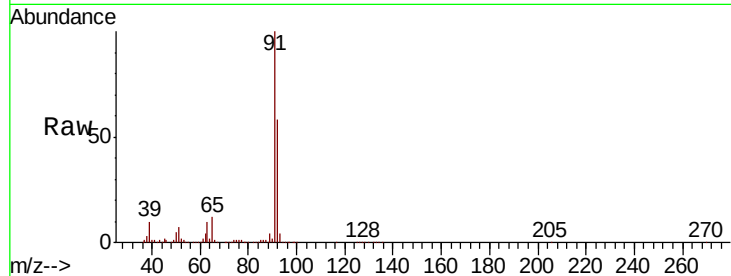
92 58.5 39.9 74.1

Manual Integrations

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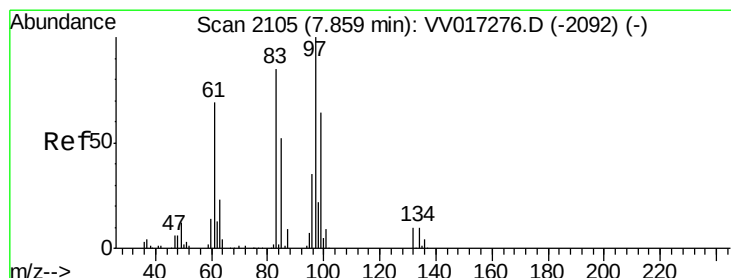
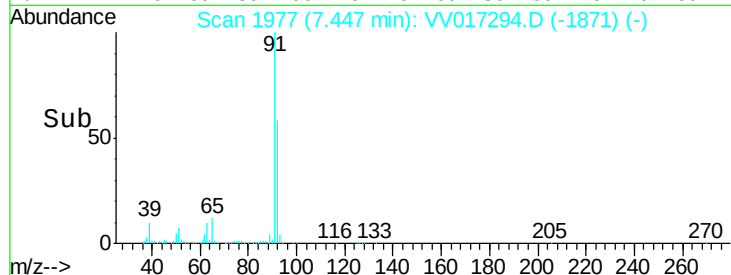
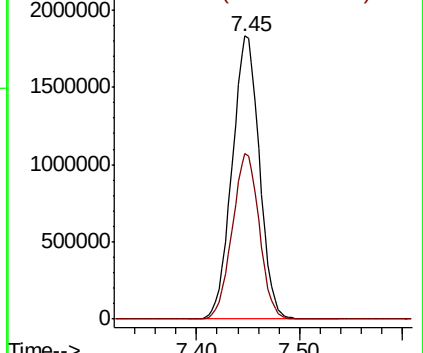
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Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#47

1,1,2-Trichloroethane

Concen: 20.450 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.03 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

Tgt Ion: 97 Resp: 172119

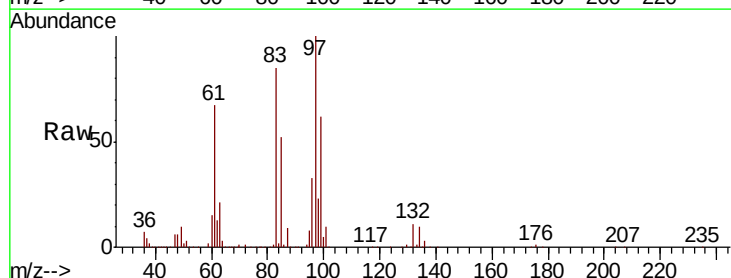
Ion Ratio Lower Upper

97 100

99 61.9 43.6 81.0

83 84.9 57.4 106.6

85 52.0 38.8 72.0

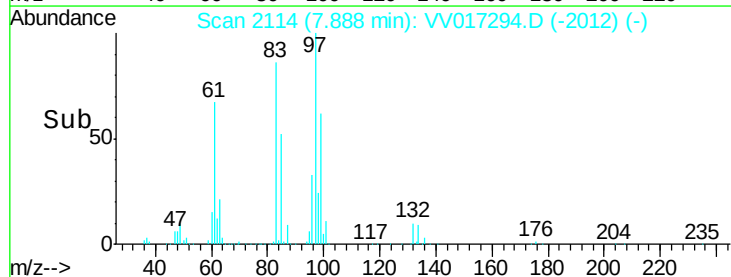
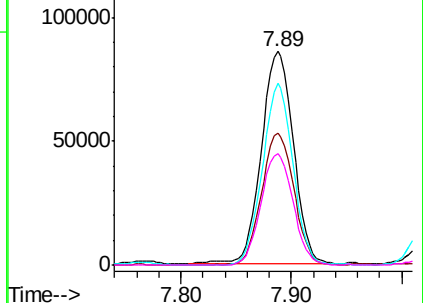


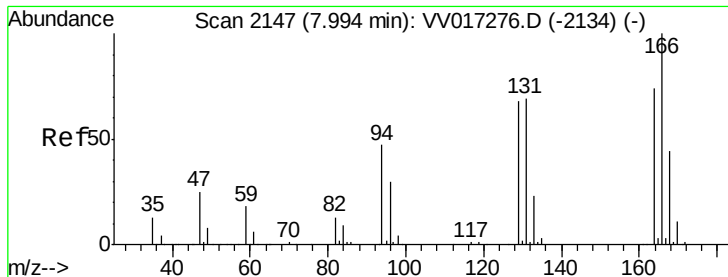
Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0





#49

Tetrachloroethene

Concen: 189.840 ug/L

RT: 8.03 min Scan# 2157

Delta R.T. 0.03 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

Instrument :

MSVOA_V

ClientSampled :

ETYJ8

Tot Ion:164 Resp: 2144815

Ion Ratio Lower Upper

164 100

129 95.3 65.2 121.0

131 91.6 64.1 119.1

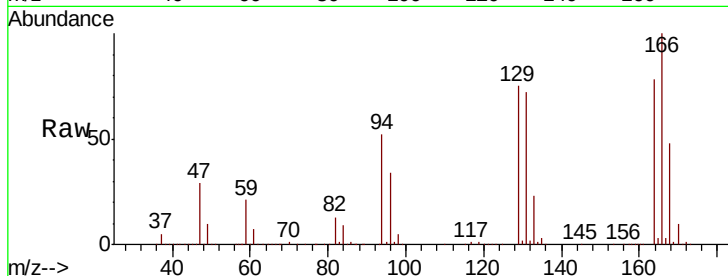
166 127.5 90.2 167.4

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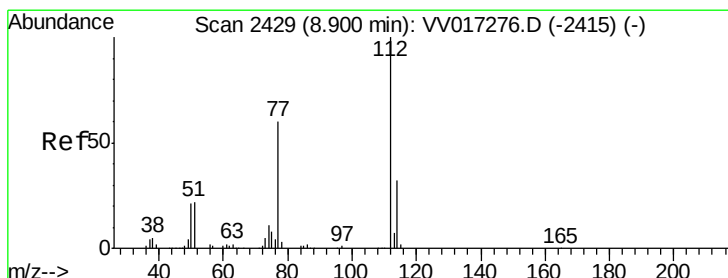
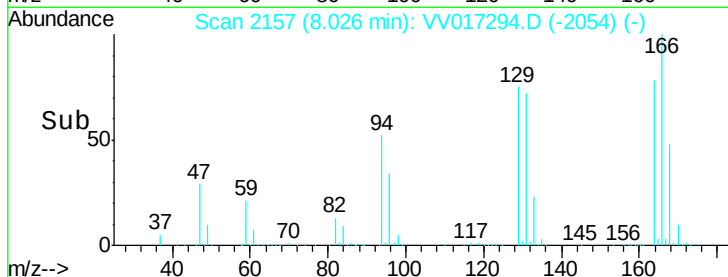
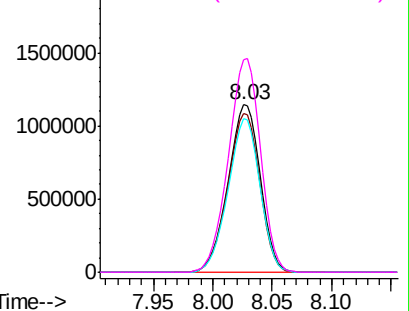


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#53

Chlorobenzene

Concen: 2.533 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.02 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

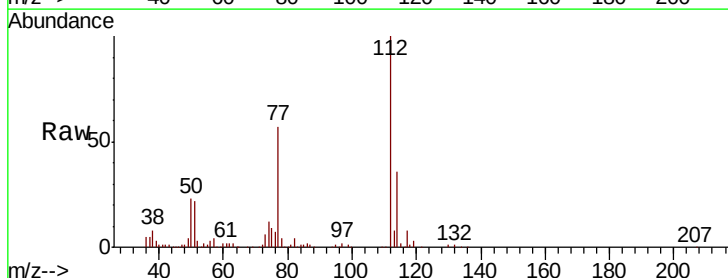
Tgt Ion:112 Resp: 88012

Ion Ratio Lower Upper

112 100

114 35.8 22.0 41.0

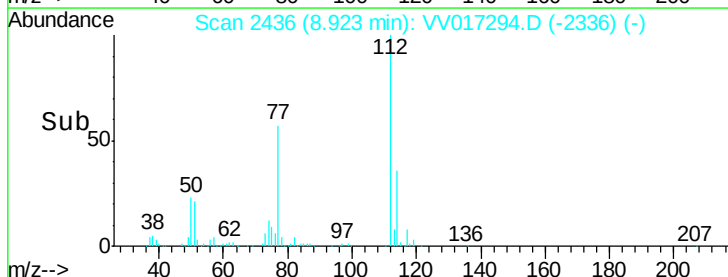
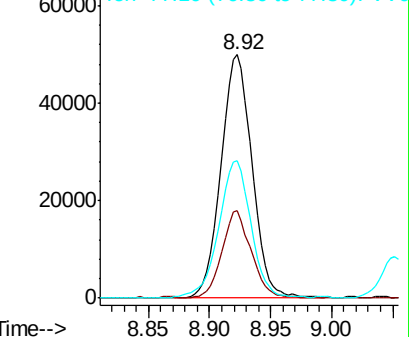
77 56.6 46.0 69.0

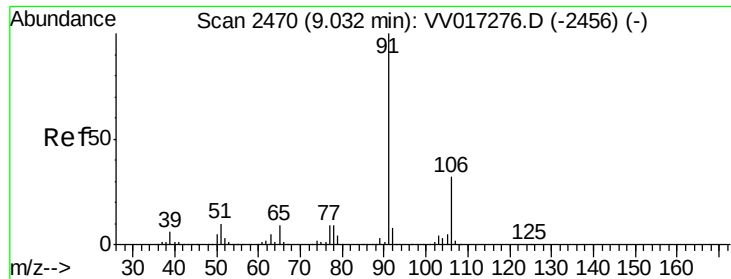


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#54

Ethylbenzene

Concen: 2.412 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.02 min

Lab File: VV017294.D

Acq: 01 Jul 2020 17:10

Instrument :

MSVOA_V

ClientSampled :

ETYJ8

Tot Ion: 91 Resp: 143479

Ion Ratio Lower Upper

91 100

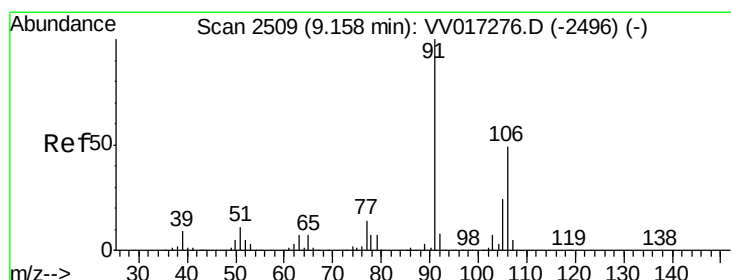
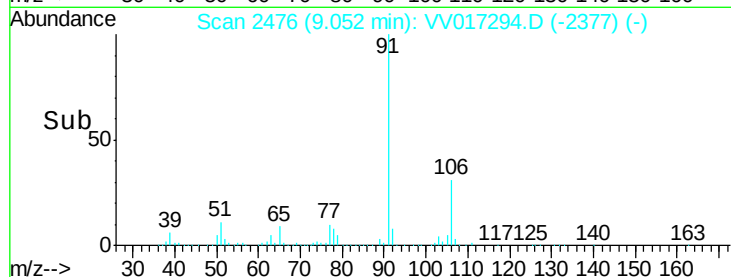
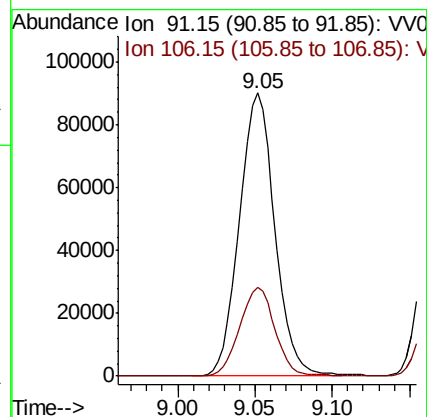
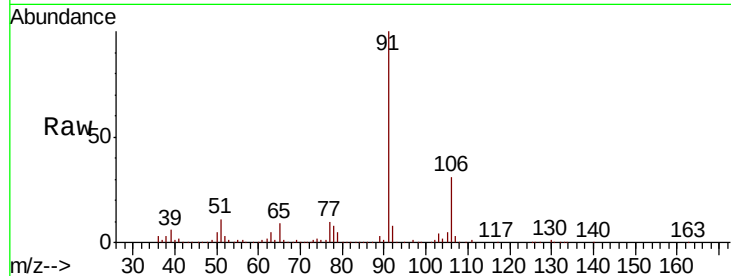
106 31.3 21.1 39.1

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#55

m,p-xylene

Concen: 5.099 ug/L

RT: 9.17 min Scan# 2514

Delta R.T. 0.02 min

Lab File: VV017294.D

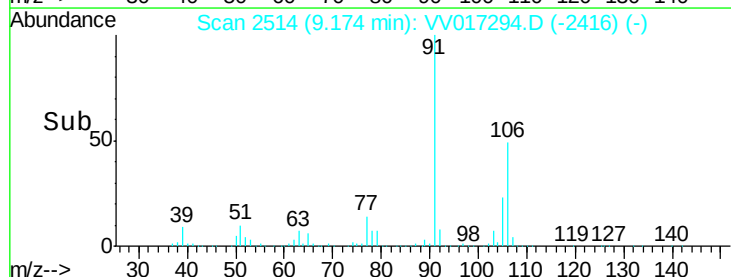
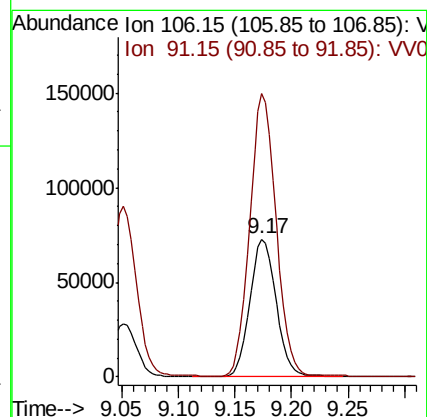
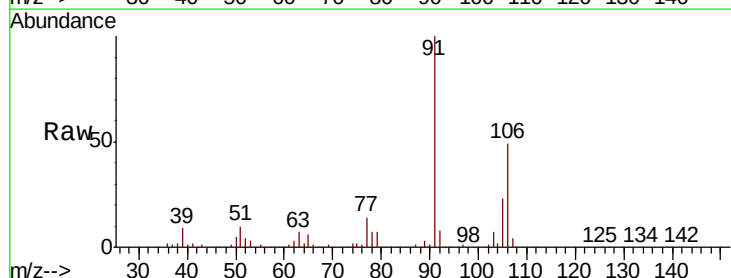
Acq: 01 Jul 2020 17:10

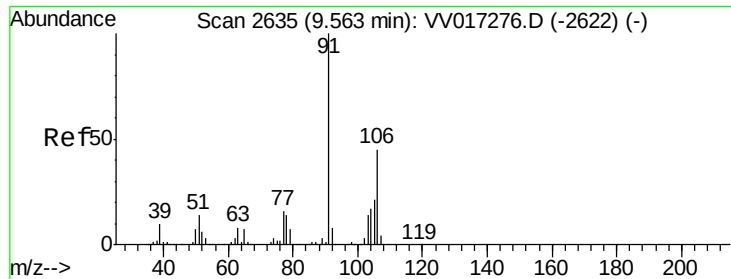
Tgt Ion: 106 Resp: 118976

Ion Ratio Lower Upper

106 100

91 205.7 142.7 264.9





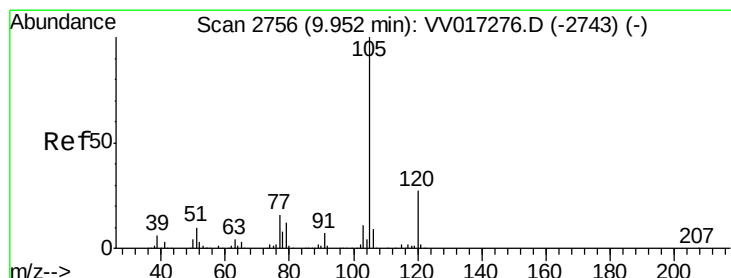
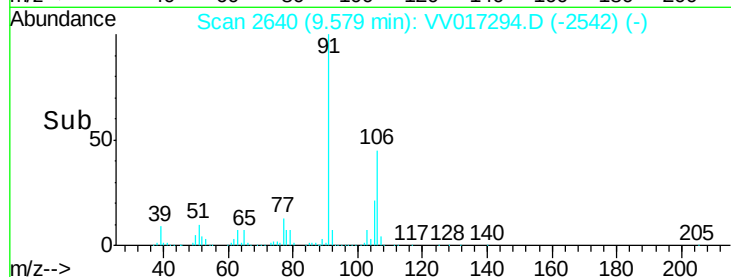
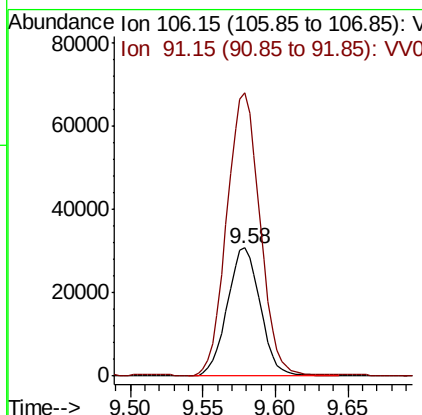
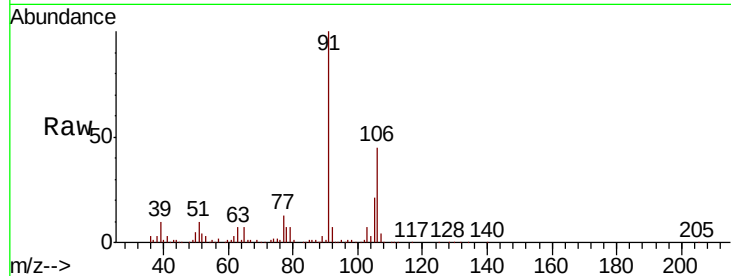
#56
o-xylene
Concen: 2.247 ug/L
RT: 9.58 min Scan# 2640
Delta R.T. 0.02 min
Lab File: VV017294.D
Acq: 01 Jul 2020 17:10

Instrument :
MSVOA_V
ClientSampled :
ETYJ8

Tot Ion	Ratio	Lower	Upper
106	100		
91	220.8	153.6	285.2

Manual Integrations
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#58
Isopropylbenzene
Concen: 0.108 ug/L
RT: 9.96 min Scan# 2760
Delta R.T. 0.01 min
Lab File: VV017294.D
Acq: 01 Jul 2020 17:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.1	21.2	31.8
77	11.4	13.0	19.4#

