

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU030934.D
 Acq On : 09 Apr 2019 03:02
 Operator : JC/SP
 Sample : K2248-21
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YD4

Manual Integrations
 APPROVED

MMDadoda
 4/10/2019 9:38:15 AM

Quant Time: Apr 09 15:11:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Apr 09 03:34:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	279884	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	268780	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	130839	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	99061	4.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.60%
7) Chloroethane-d5	1.68	69	90711	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.20%
11) 1,1-Dichloroethene-d2	2.28	63	13073090	298.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	5971.80%#
20) 2-Butanone-d5	4.23	46	396290	71.91	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	143.82%#
24) Chloroform-d	4.65	84	188656	5.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.00%
26) 1,2-Dichloroethane-d4	5.31	65	111339	5.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	115.60%
32) Benzene-d6	5.34	84	384405	5.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.60%
36) 1,2-Dichloropropane-d6	6.33	67	131433	5.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	110.60%
41) Toluene-d8	7.56	98	304523	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
43) trans-1,3-Dichloropropene-	7.85	79	46749	5.30	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	106.00%
46) 2-Hexanone-d5	8.31	63	288002	75.12	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	150.24%#
57) 1,1,2,2-Tetrachloroethane-	10.43	84	114772	6.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	135.00%#
64) 1,2-Dichlorobenzene-d4	11.86	152	121956	5.57	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.40%

Target Compounds

					Ovalue
5) Vinyl chloride	1.40	62	65658	1.961	ug/L 83
9) Trichlorofluoromethane	1.88	101	181544	4.782	ug/L 99
12) 1,1-Dichloroethene	2.28	96	21651044	1060.178	ug/L # 64
14) Carbon disulfide	2.48	76	31113	0.434	ug/L 97
18) trans-1,2-Dichloroethene	2.97	96	921623	42.746	ug/L 95
19) 1,1-Dichloroethane	3.44	63	15761622	345.604	ug/L 99
22) cis-1,2-Dichloroethene	4.20	96	43585516m	1895.747	ug/L
29) 1,1,1-Trichloroethane	4.89	97	60787162m	1775.286	ug/L
33) Benzene	5.39	78	418763	4.606	ug/L 100
34) Trichloroethene	6.18	95	463297	20.355	ug/L 96
42) Toluene	7.63	91	1167840	12.807	ug/L 99
45) 1,1,2-Trichloroethane	8.07	97	55232	3.702	ug/L 96
47) Tetrachloroethene	8.22	164	2899047	181.590	ug/L 98
52) Ethylbenzene	9.25	91	539678	5.549	ug/L 99
53) m,p-Xylene	9.38	106	192323	5.661	ug/L 99
54) o-Xylene	9.77	106	4556405	136.774	ug/L 97
56) Isopropylbenzene	10.16	105	88533	0.995	ug/L 98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Apr 09 03:34:38 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1,2,2-Tetrachloroethane	10.45	83	51223	2.582	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	6532	0.163	ug/L	93

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

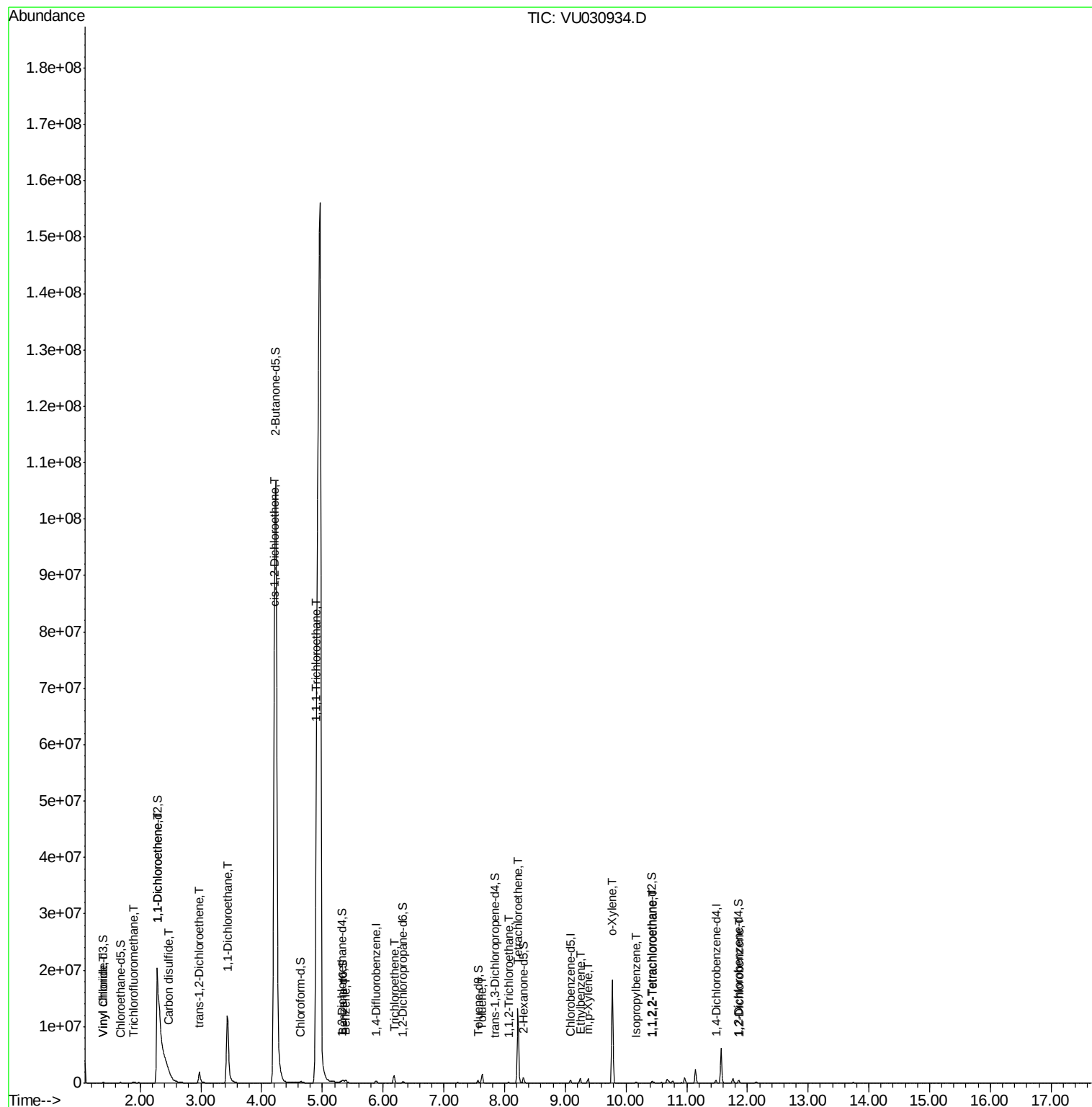
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
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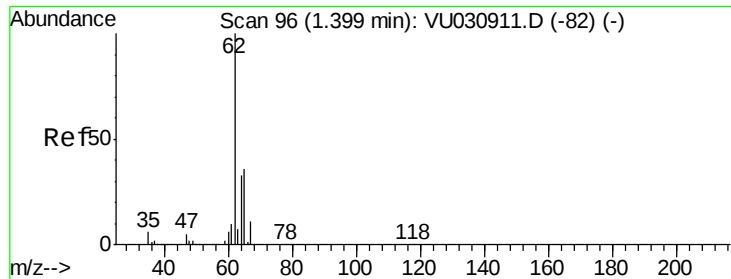
Instrument :
MSVOA_U
ClientSampleId :
E3YD4

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.961 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.01 min

Lab File: VU030934.D

Acq: 09 Apr 2019 03:02

Instrument :

MSVOA_U

ClientSampled :

E3YD4

Tot Ion: 62 Resp: 65658

Ion Ratio Lower Upper

62 100

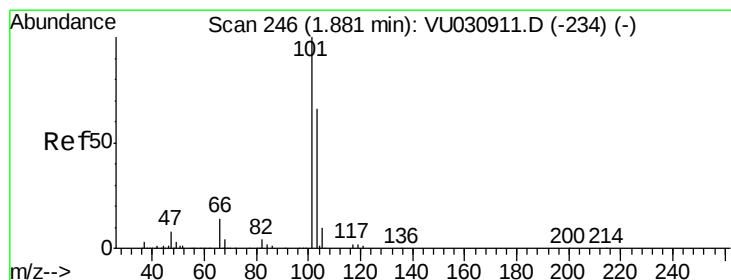
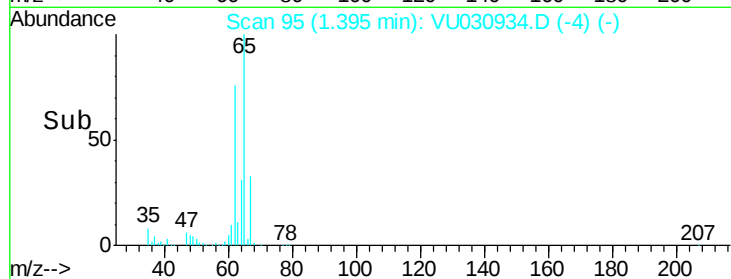
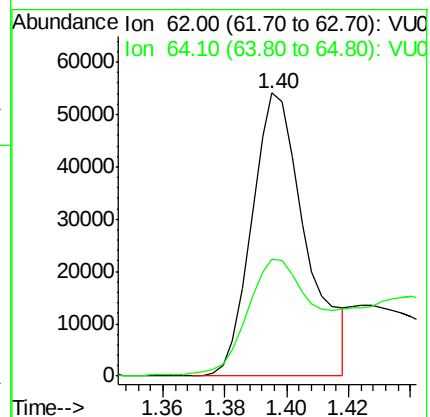
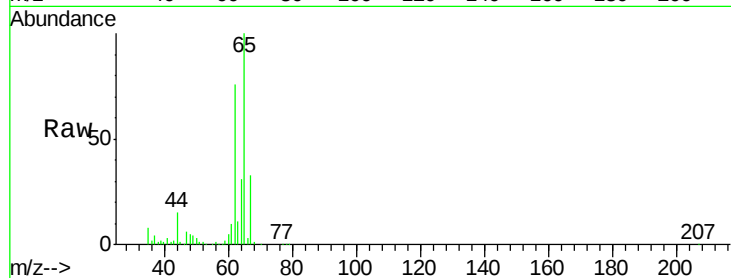
64 41.5 22.5 41.9

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 4.782 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.01 min

Lab File: VU030934.D

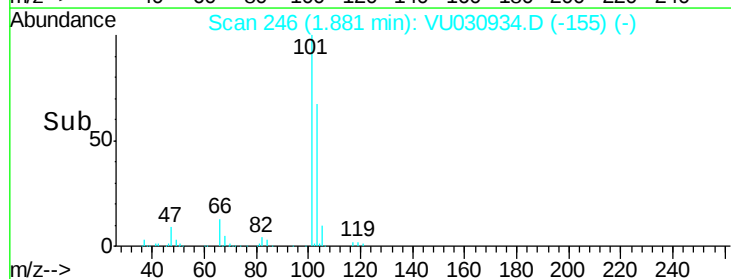
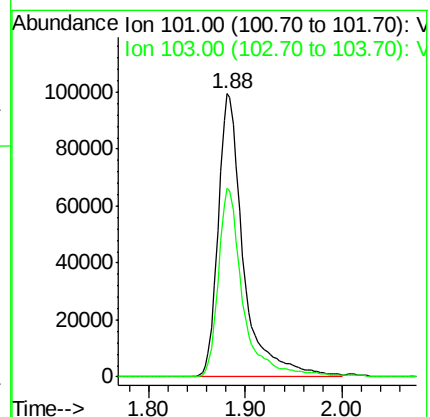
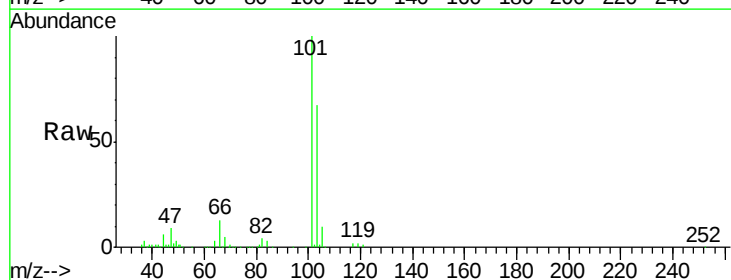
Acq: 09 Apr 2019 03:02

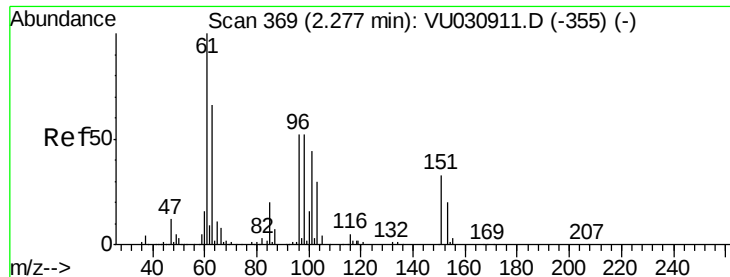
Tgt Ion: 101 Resp: 181544

Ion Ratio Lower Upper

101 100

103 64.6 52.0 78.0





#12

1,1-Dichloroethene

Concen: 1060.178 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030934.D

Acq: 09 Apr 2019 03:02

Instrument :

MSVOA_U

ClientSampleId :

E3YD4

Tot Ion: 96 Resp: 21651044

Ion Ratio Lower Upper

96 100

61 184.1 136.9 254.3

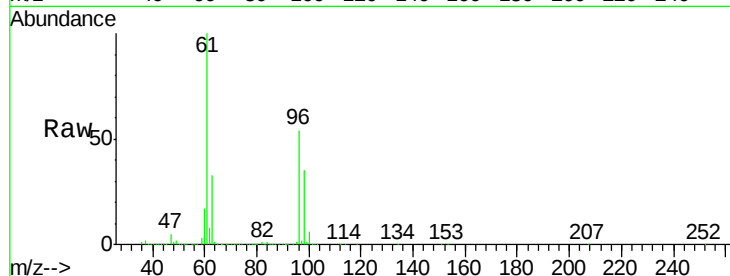
63 60.7 107.7 200.1#

Manual Integrations

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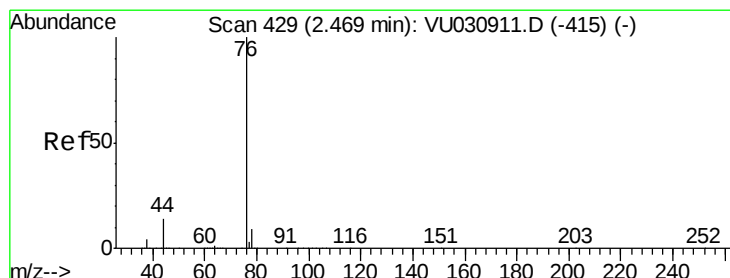
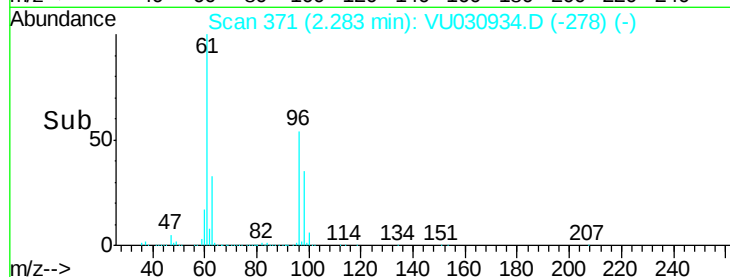
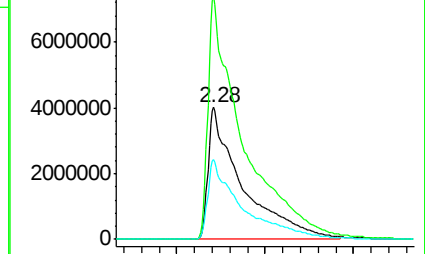
4/10/2019 9:38:15 AM



Abundance Ion 96.00 (95.70 to 96.70): VU030934.D (-371) (-)

Ion 61.05 (60.75 to 61.75): VU030934.D (-371) (-)

Ion 63.00 (62.70 to 63.70): VU030934.D (-371) (-)



#14

Carbon disulfide

Concen: 0.434 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU030934.D

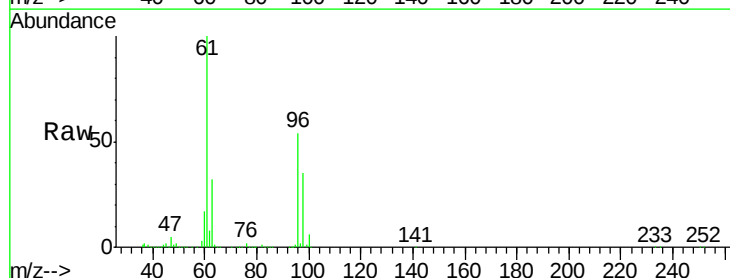
Acq: 09 Apr 2019 03:02

Tgt Ion: 76 Resp: 31113

Ion Ratio Lower Upper

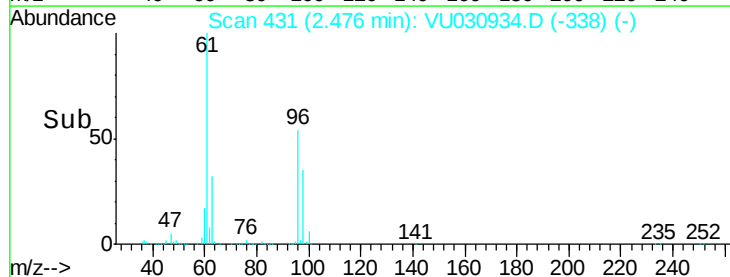
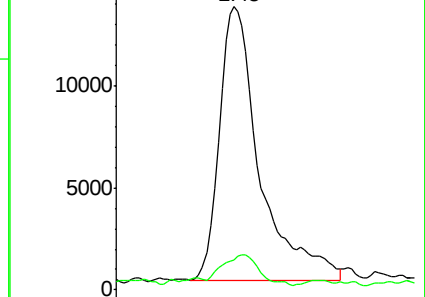
76 100

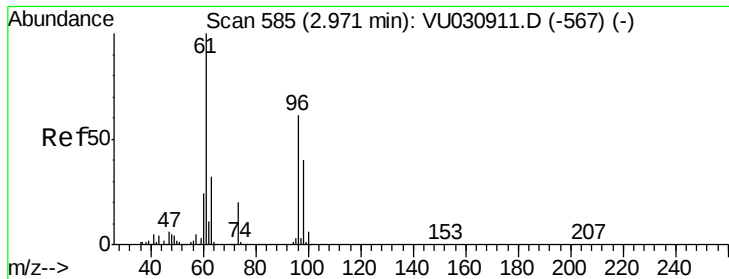
78 10.7 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU030934.D (-431) (-)

Ion 78.00 (77.70 to 78.70): VU030934.D (-431) (-)





#18

trans-1,2-Dichloroethene

Concen: 42.746 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.01 min

Lab File: VU030934.D

Acq: 09 Apr 2019 03:02

Instrument :

MSVOA_U

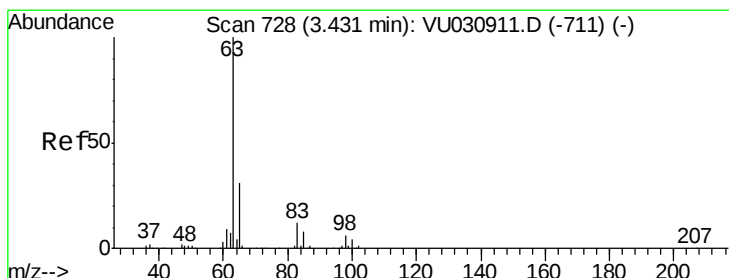
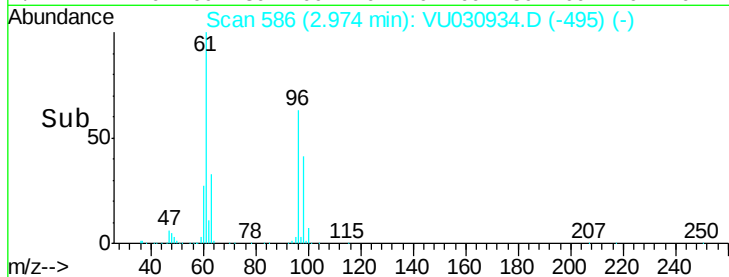
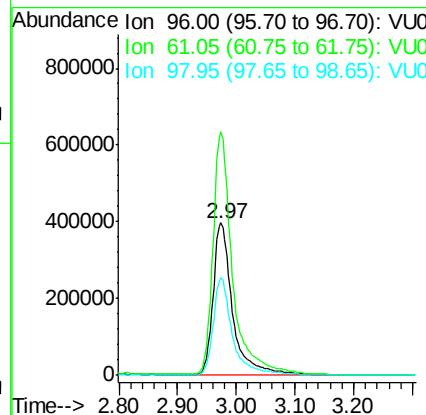
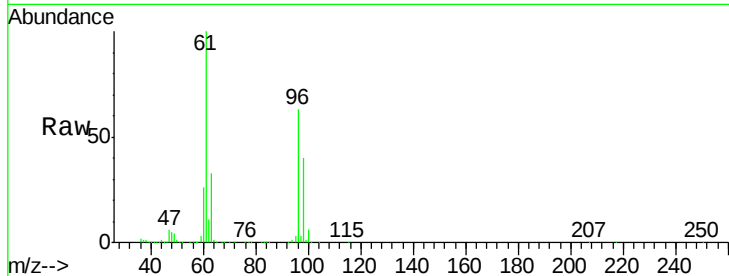
ClientSampleId :

E3YD4

Tot Ion:	96	Resp:	921623
Ion	Ratio	Lower	Upper
96	100		
61	159.7	116.8	216.8
98	64.3	46.8	87.0

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#19

1,1-Dichloroethane

Concen: 345.604 ug/L

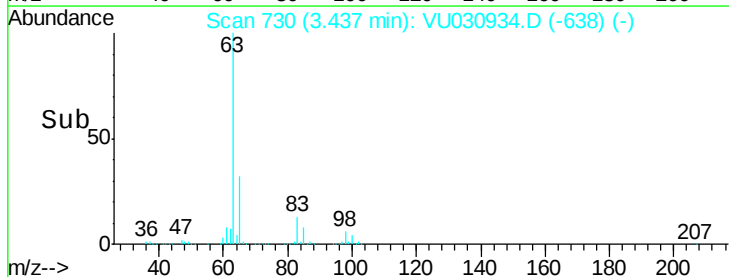
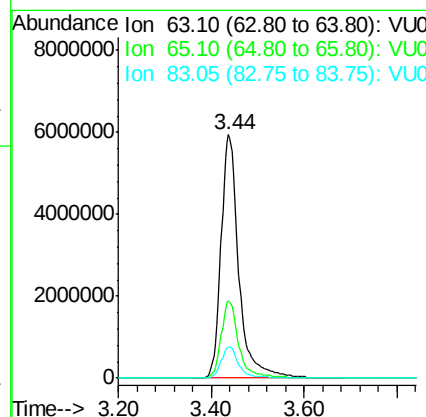
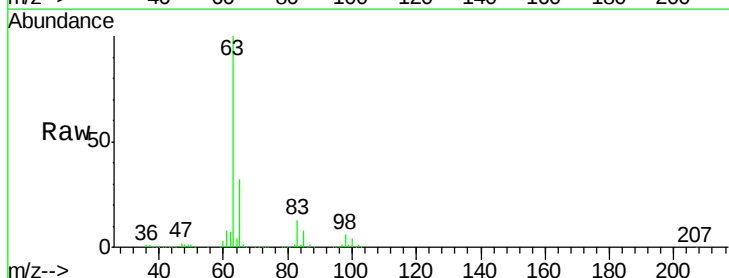
RT: 3.44 min Scan# 730

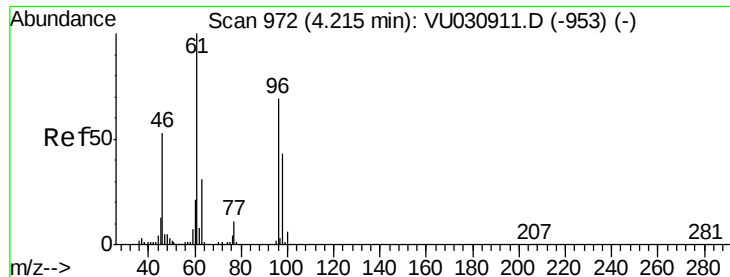
Delta R.T. -0.00 min

Lab File: VU030934.D

Acq: 09 Apr 2019 03:02

Tgt Ion:	63	Resp:	15761622
Ion	Ratio	Lower	Upper
63	100		
65	31.8	21.6	40.0
83	12.8	9.1	16.9





#22

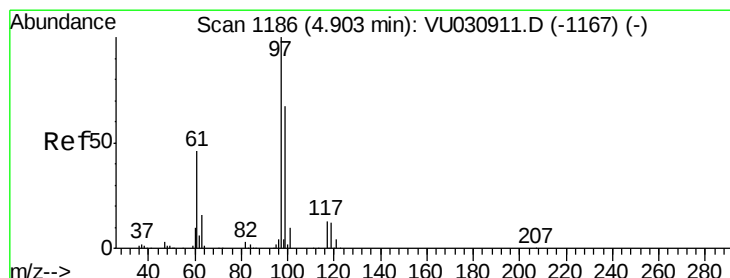
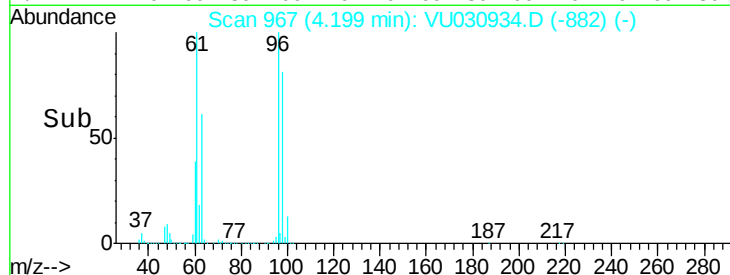
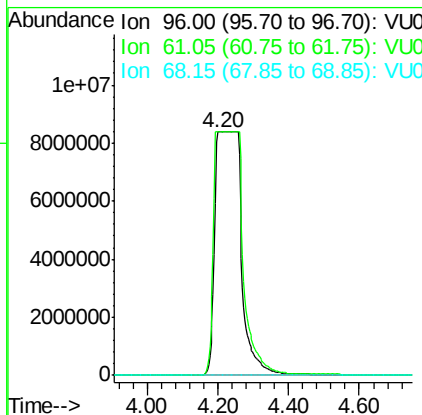
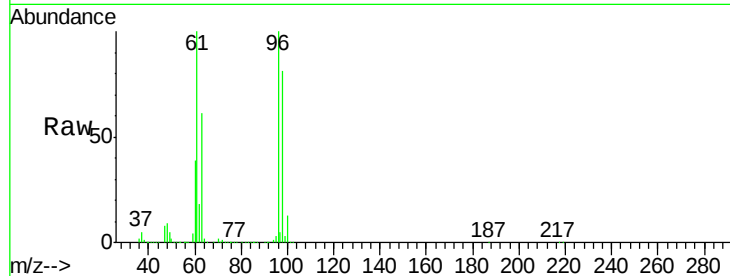
cis-1,2-Dichloroethene
 Concen: 1895.747 ug/L m
 RT: 4.20 min Scan# 967
 Delta R.T. -0.03 min
 Lab File: VU030934.D
 Acq: 09 Apr 2019 03:02

Instrument :
 MSVOA_U
 ClientSampled :
 E3YD4

Tot Ion: 96 Resp:43585516
 Ion Ratio Lower Upper
 96 100
 61 100.0 98.9 183.7
 68 0.0 0.0 0.0#

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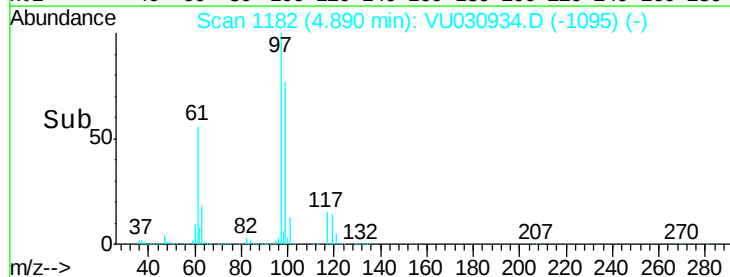
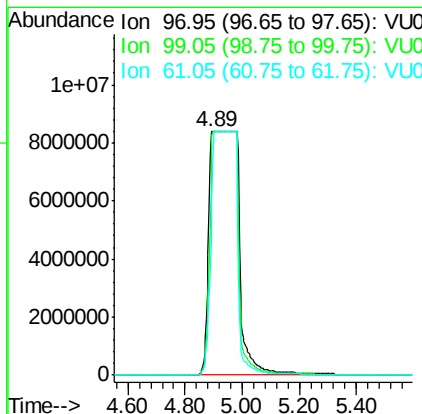
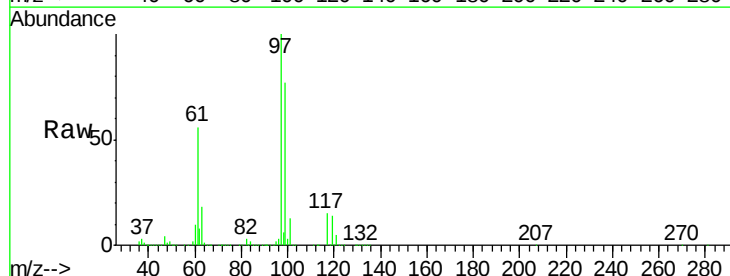
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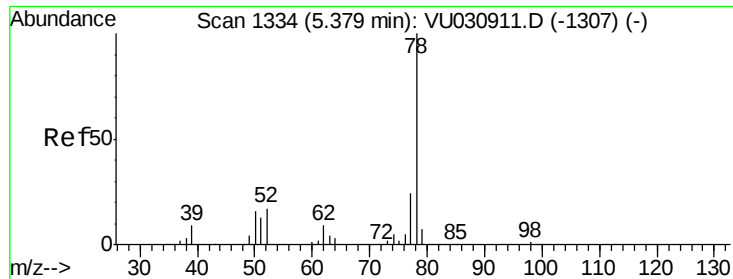


#29

1,1,1-Trichloroethane
 Concen: 1775.286 ug/L m
 RT: 4.89 min Scan# 1182
 Delta R.T. -0.02 min
 Lab File: VU030934.D
 Acq: 09 Apr 2019 03:02

Tgt Ion: 97 Resp:60787162
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.8 77.6#
 61 0.0 38.1 57.1#





#33

Benzene

Concen: 4.606 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU030934.D

Acq: 09 Apr 2019 03:02

Instrument :

MSVOA_U

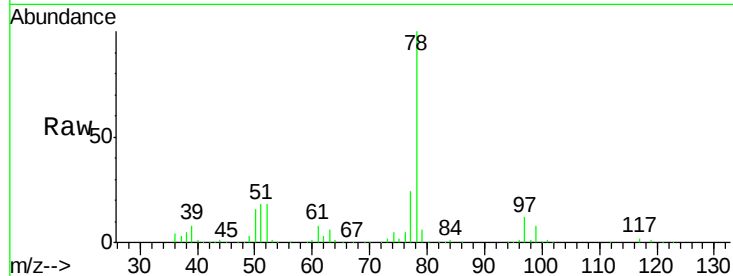
ClientSampleId :

E3YD4

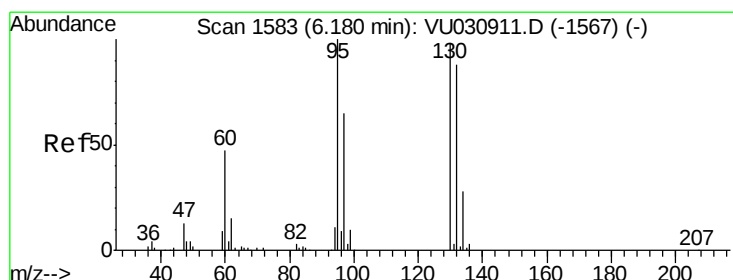
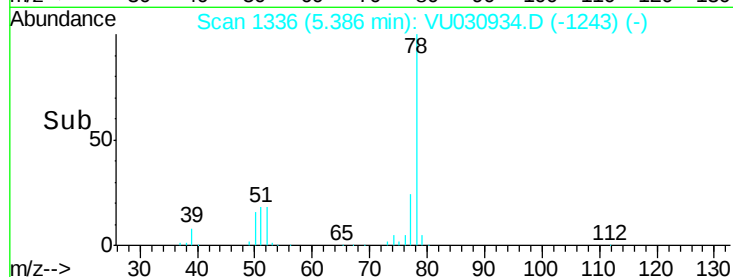
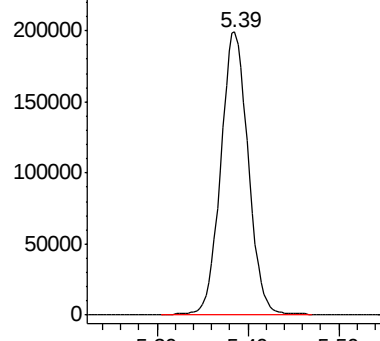
Tgt Ion: 78 Resp: 418763

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Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 20.355 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU030934.D

Acq: 09 Apr 2019 03:02

Tgt Ion: 95 Resp: 463297

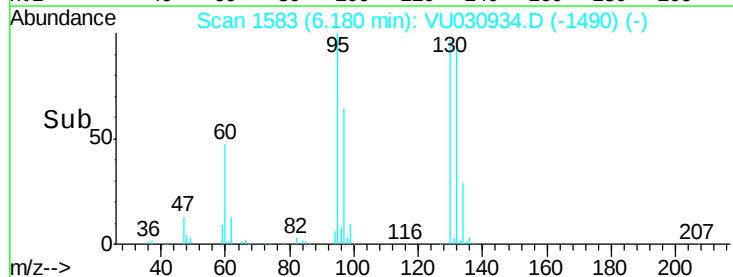
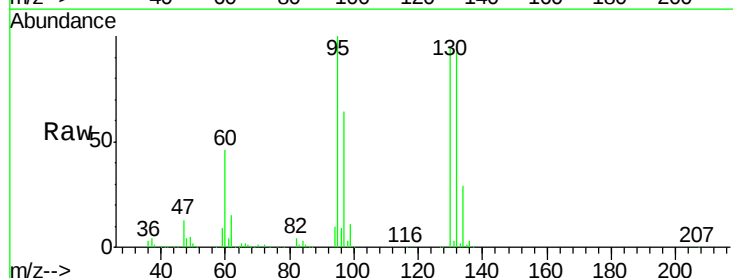
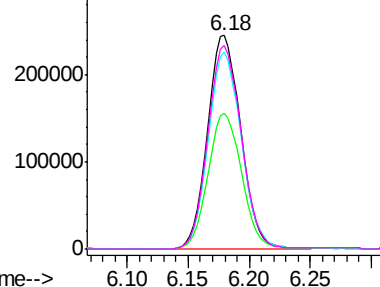
Ion	Ratio	Lower	Upper
95	100		
97	63.7	43.5	80.9
132	92.2	60.7	112.7
130	95.5	65.1	120.9

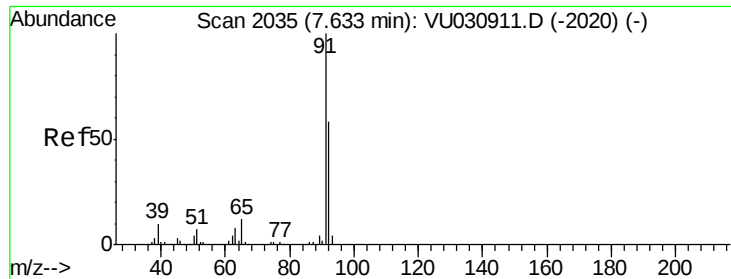
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#42

Toluene

Concen: 12.807 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030934.D

Acq: 09 Apr 2019 03:02

Instrument :
MSVOA_U
ClientSampleId :
E3YD4

Tot Ion: 91 Resp: 1167840

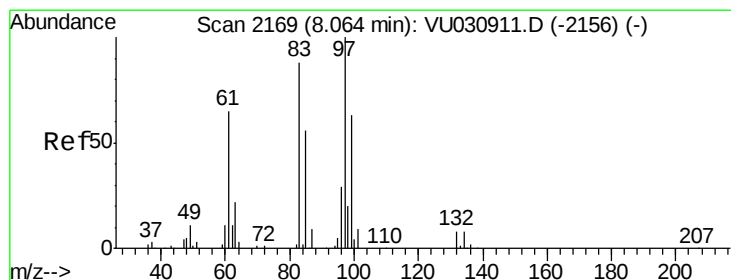
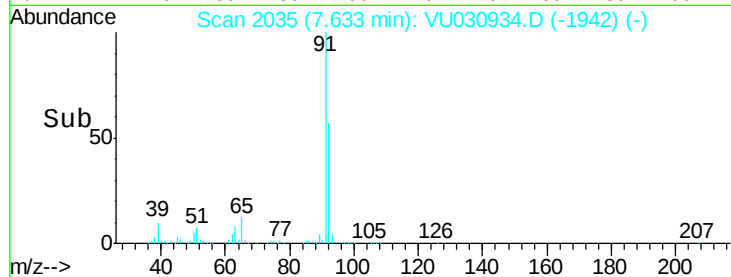
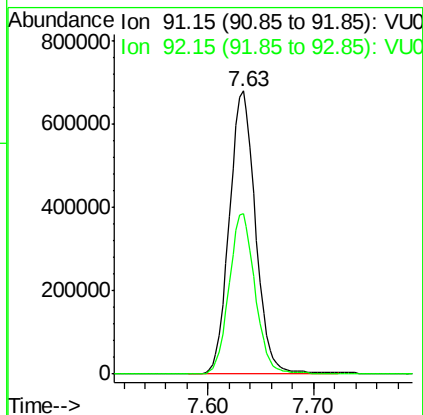
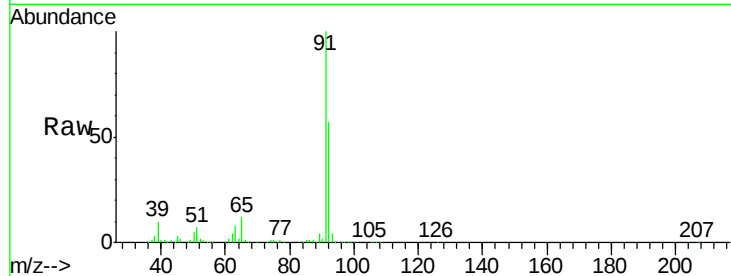
Ion Ratio Lower Upper

91 100

92 56.5 39.9 74.1

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#45

1,1,2-Trichloroethane

Concen: 3.702 ug/L

RT: 8.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU030934.D

Acq: 09 Apr 2019 03:02

Tgt Ion: 97 Resp: 55232

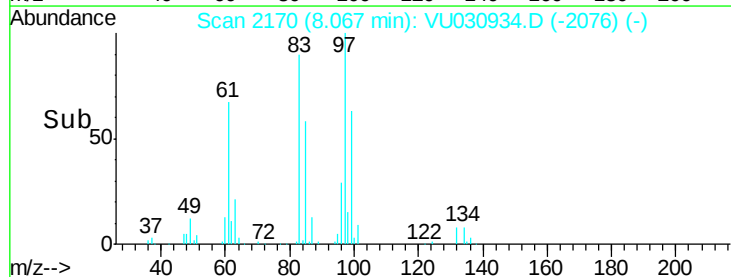
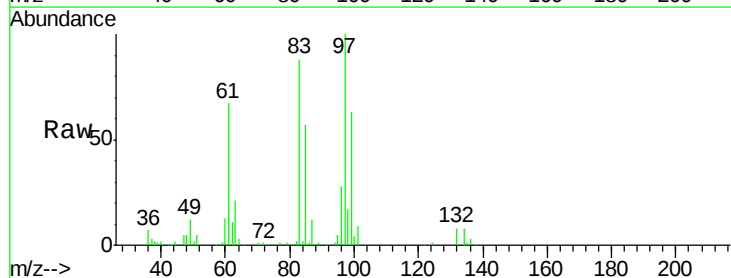
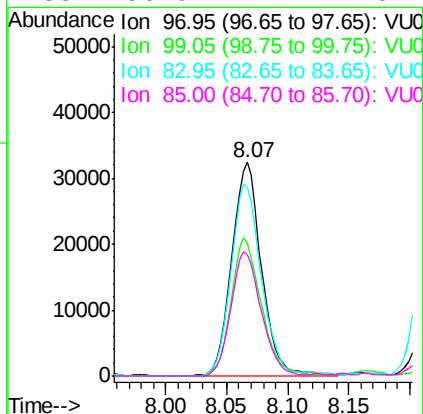
Ion Ratio Lower Upper

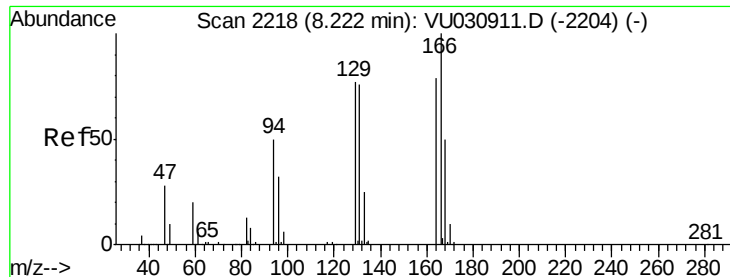
97 100

99 62.6 45.3 84.1

83 88.5 66.5 123.5

85 56.9 41.2 76.4





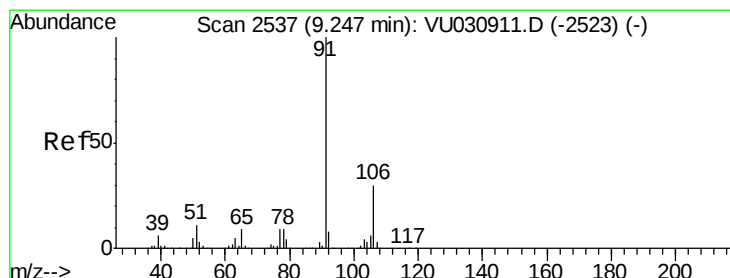
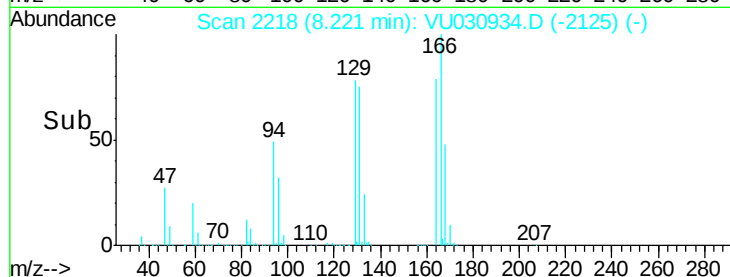
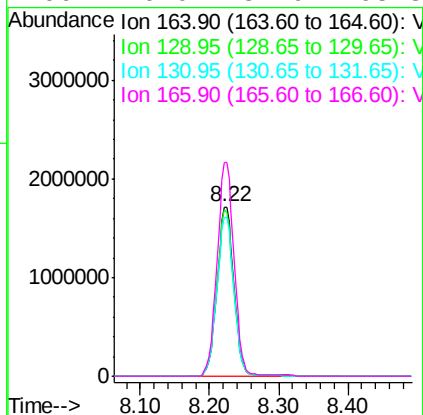
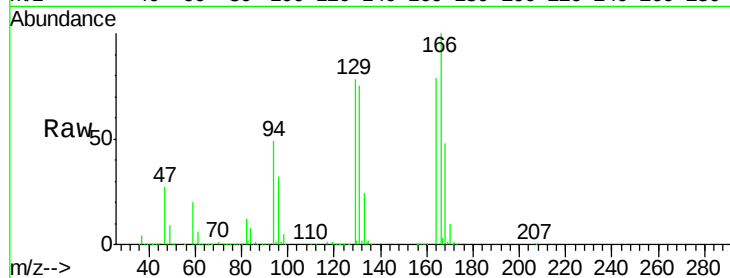
#47
Tetrachloroethene
Concen: 181.590 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VU030934.D
Acq: 09 Apr 2019 03:02

Instrument :
MSVOA_U
ClientSampleId :
E3YD4

Tot Ion	Ratio	Lower	Upper
164	100		
129	98.1	70.1	130.1
131	94.0	67.8	125.8
166	126.0	87.9	163.3

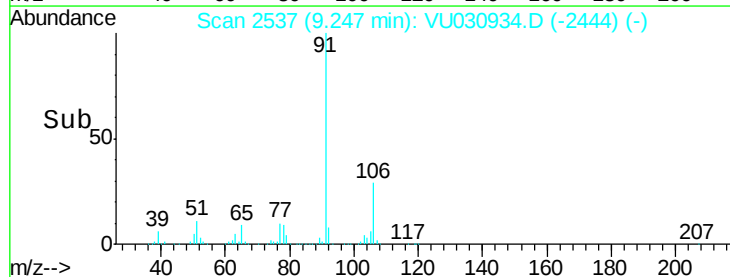
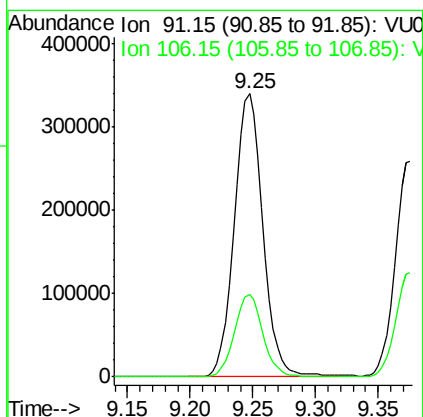
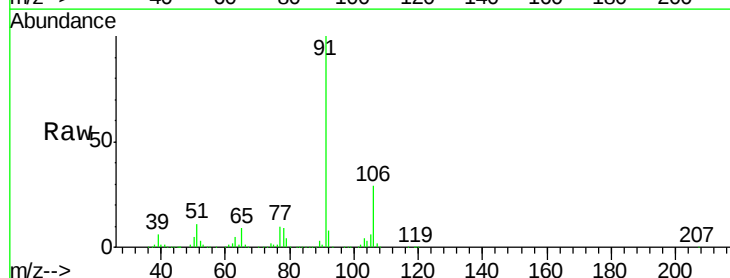
Manual Integrations
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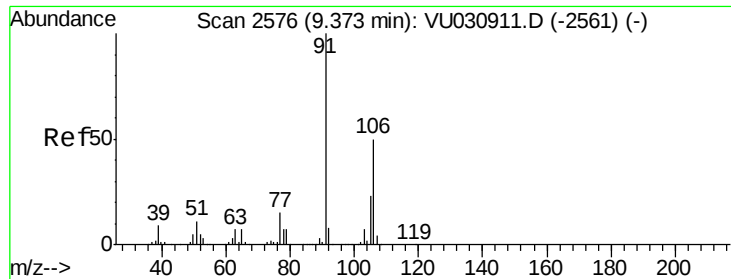
MMDadoda
4/10/2019 9:38:15 AM



#52
Ethylbenzene
Concen: 5.549 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. -0.00 min
Lab File: VU030934.D
Acq: 09 Apr 2019 03:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.1	20.2	37.4





#53

m,p-Xylene

Concen: 5.661 ug/L

RT: 9.38 min Scan# 2577

Delta R.T. 0.01 min

Lab File: VU030934.D

Acq: 09 Apr 2019 03:02

Instrument :

MSVOA_U

ClientSampled :

E3YD4

Tot Ion:106 Resp: 192323

Ion Ratio Lower Upper

106 100

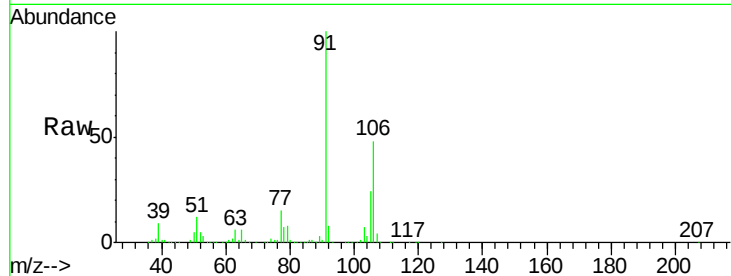
91 208.4 147.4 273.8

Manual Integrations

APPROVED

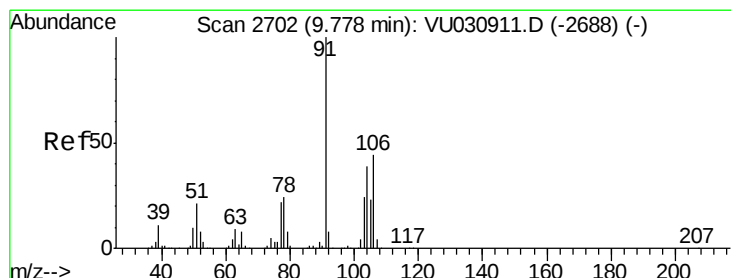
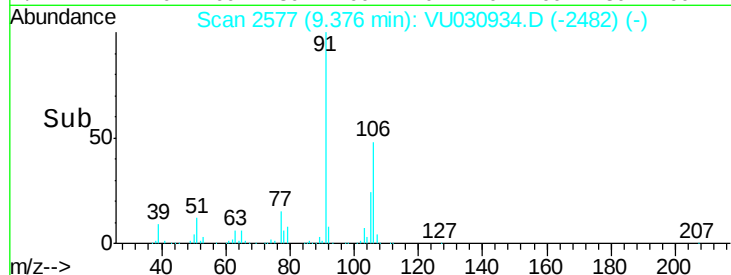
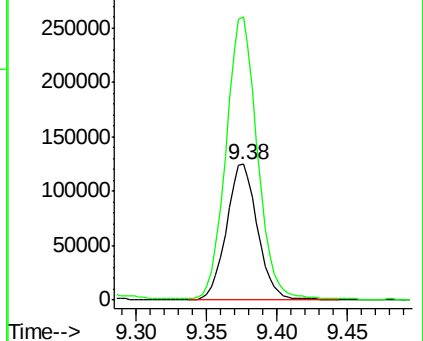
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4/10/2019 9:38:15 AM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 136.774 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030934.D

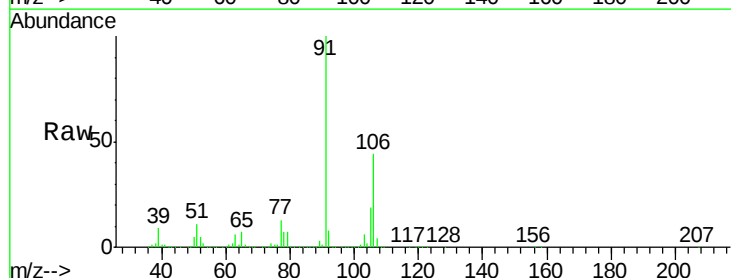
Acq: 09 Apr 2019 03:02

Tgt Ion:106 Resp: 4556405

Ion Ratio Lower Upper

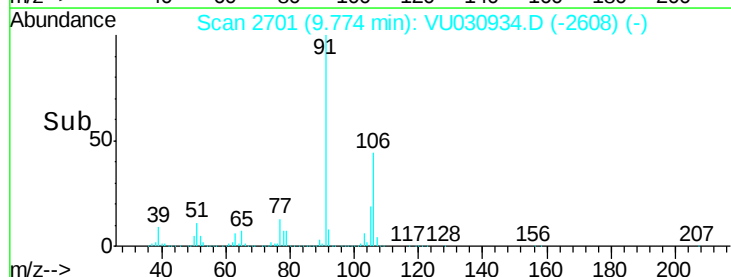
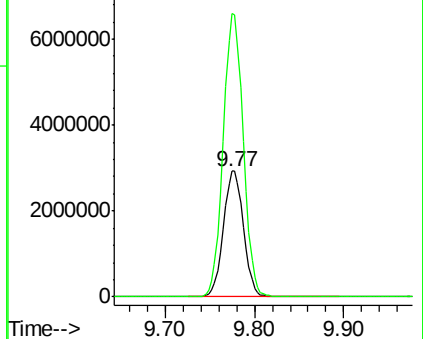
106 100

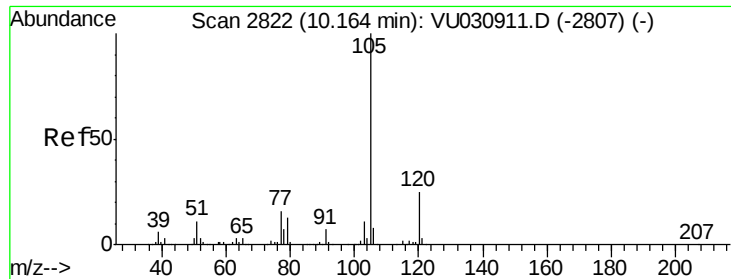
91 225.0 161.3 299.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





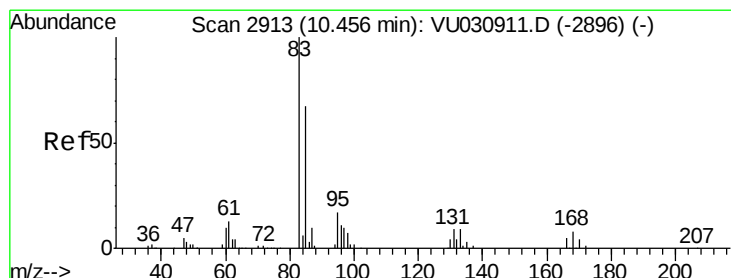
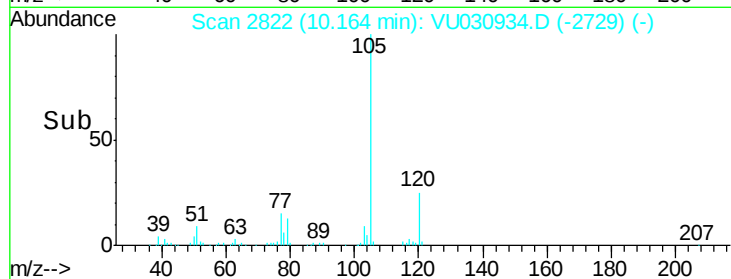
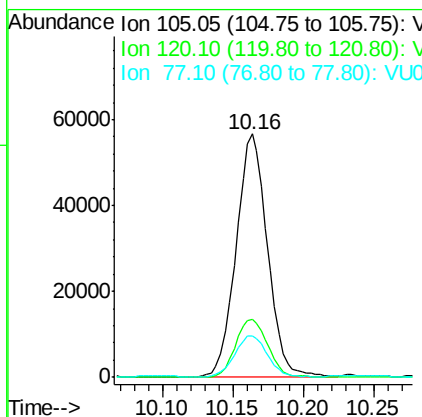
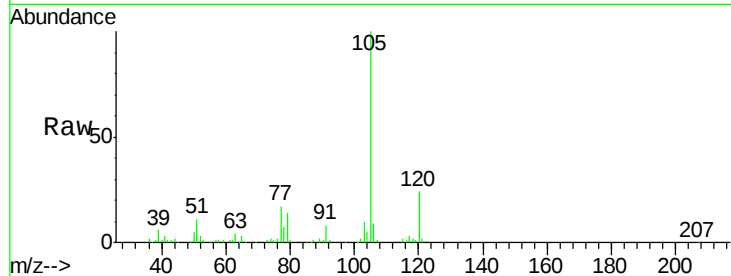
#56
Isopropylbenzene
Concen: 0.995 ug/L
RT: 10.16 min Scan# 2822
Delta R.T. -0.00 min
Lab File: VU030934.D
Acq: 09 Apr 2019 03:02

Instrument :
MSVOA_U
ClientSampleId :
E3YD4

Tot Ion	Ratio	Resp	Lower	Upper
105	100	88533		
120	24.5		20.5	30.7
77	18.2		13.8	20.8

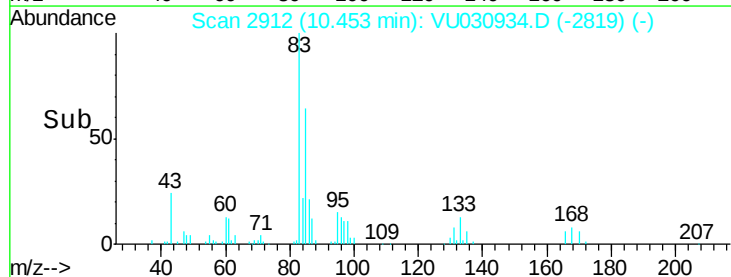
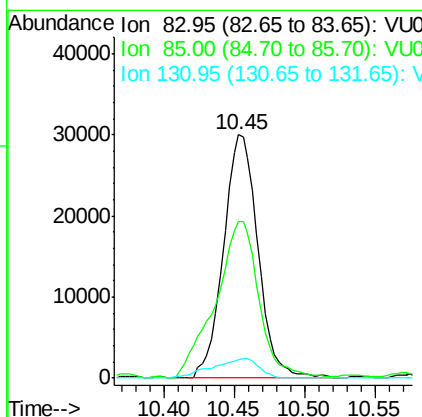
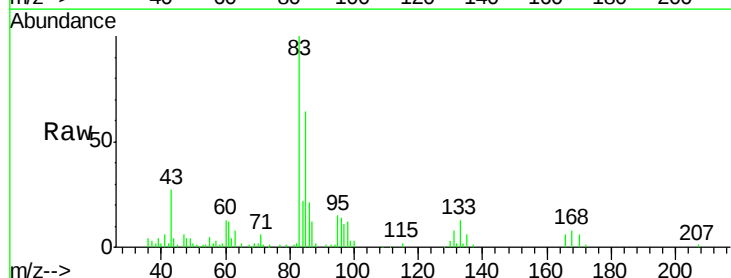
Manual Integrations
APPROVED

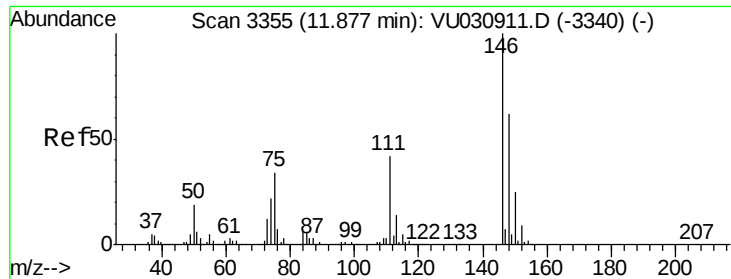
MMDadoda
4/10/2019 9:38:15 AM



#58
1,1,2,2-Tetrachloroethane
Concen: 2.582 ug/L
RT: 10.45 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VU030934.D
Acq: 09 Apr 2019 03:02

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	51223		
85	64.2		44.4	82.5
131	7.6		7.4	11.2





#65
 1,2-Dichlorobenzene
 Concen: 0.163 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU030934.D
 Acq: 09 Apr 2019 03:02

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YD4

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	37.1	55.7
148	58.9	51.8	77.8

Manual Integrations
 APPROVED

MMDadoda
 4/10/2019 9:38:15 AM

