

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041219\
 Data File : VU031145.D
 Acq On : 12 Apr 2019 21:40
 Operator : JC/SP
 Sample : K2339-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFC35

Manual Integrations
 APPROVED

MMDadoda
 4/15/2019 12:48:37 PM

Quant Time: Apr 16 12:45:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 13 01:01:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.90	114	612541	50.00	ug/L	0.02
28) Chlorobenzene-d5	9.09	117	591343	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	284593	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	240733	44.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.06%
7) Chloroethane-d5	1.67	69	175868	42.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.76%
11) 1,1-Dichloroethene-d2	2.28	63	12722715	1286.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	2572.84%#
21) 2-Butanone-d5	4.18	46	366365	84.54	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	84.54%
24) Chloroform-d	4.64	84	373789	44.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.50%
26) 1,2-Dichloroethane-d4	5.31	65	245528	43.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.16%
32) Benzene-d6	5.35	84	763604	44.23	ug/L	0.02
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.46%
36) 1,2-Dichloropropane-d6	6.42	67	264187	44.66	ug/L	0.10
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.32%
41) Toluene-d8	7.57	98	668695	43.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.40%
43) trans-1,3-Dichloropropene-	7.85	79	120817	44.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.58%
47) 2-Hexanone-d5	8.31	63	235500	87.09	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.09%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	346284	43.39	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	86.78%
64) 1,2-Dichlorobenzene-d4	11.86	152	253467	45.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.58%

Target Compounds

					Ovalue
5) Vinyl chloride	1.40	62	14053	2.086 ug/L #	18
9) Trichlorofluoromethane	1.88	101	18798	2.395 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	56222	12.818 ug/L #	36
12) 1,1-Dichloroethene	2.27	96	18831797m	4447.541 ug/L	
13) Acetone	2.32	43	110107	24.829 ug/L	99
16) Methylene chloride	2.69	84	137601	26.751 ug/L	89
17) trans-1,2-Dichloroethene	2.98	96	14793	3.290 ug/L	94
19) 1,1-Dichloroethane	3.44	63	778882	83.950 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	727943	146.641 ug/L	90
22) 2-Butanone	4.28	43	34525m	6.640 ug/L	
25) Chloroform	4.67	83	100807	10.810 ug/L	96
27) 1,2-Dichloroethane	5.41	62	104309	14.656 ug/L	97
30) 1,1,1-Trichloroethane	4.92	97	460207	63.858 ug/L	99
31) Carbon tetrachloride	5.14	117	14786m	2.381 ug/L	
33) Benzene	5.41	78	52591	2.718 ug/L	100
34) Trichloroethene	6.17	95	115821430m	24402.766 ug/L	
35) Methylcyclohexane	6.48	83	54894	7.494 ug/L	95

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Apr 13 01:01:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	3035479	153.671	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	275196	59.218	ug/L	95
46) Tetrachloroethene	8.23	164	118193	34.252	ug/L	98
52) Ethylbenzene	9.25	91	736240	34.194	ug/L	99
53) m,p-Xylene	9.37	106	1435197	191.119	ug/L	99
54) o-xylene	9.78	106	561635	75.190	ug/L	98
56) Isopropylbenzene	10.17	105	22548	1.147	ug/L	99

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

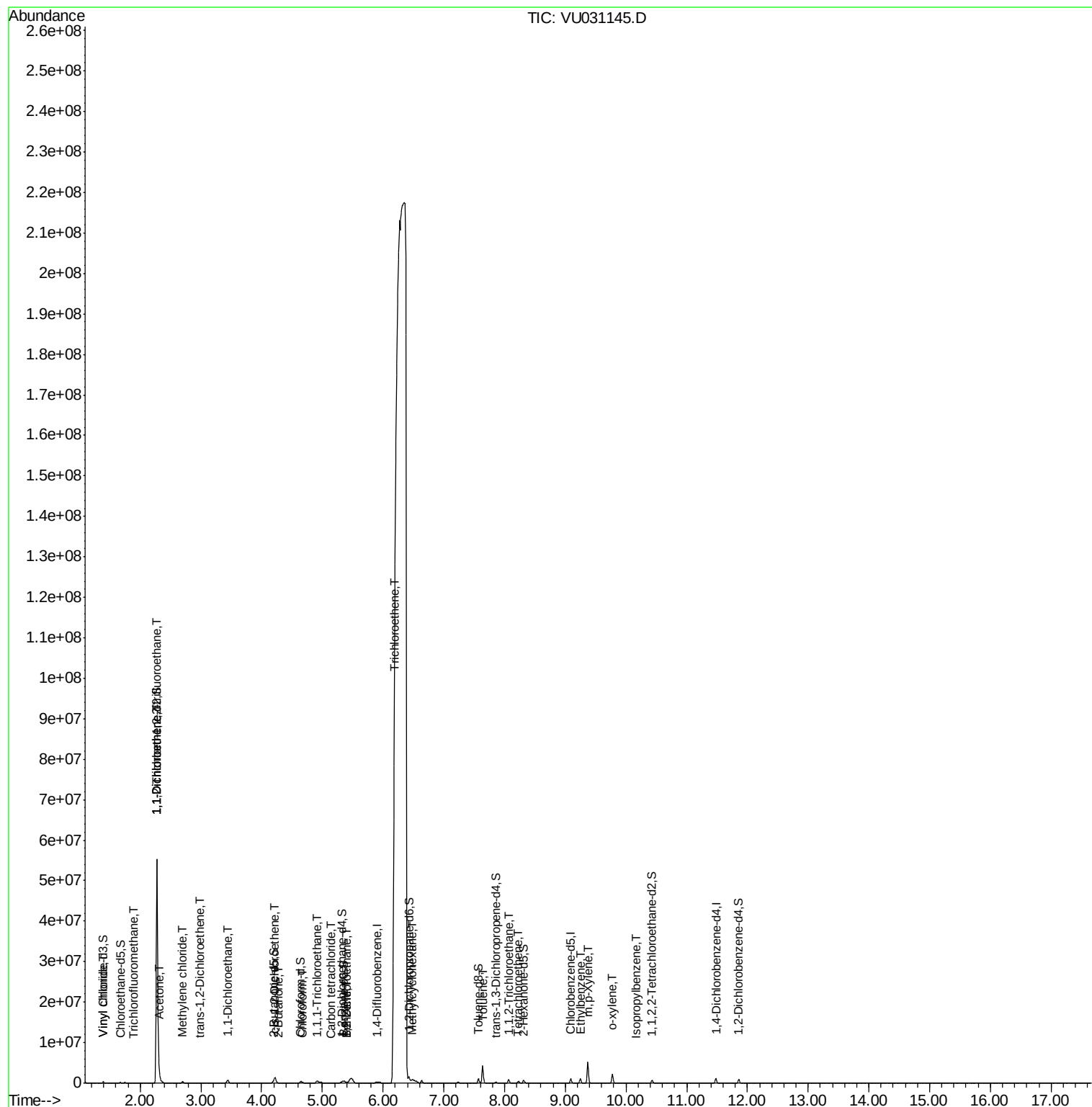
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041219\
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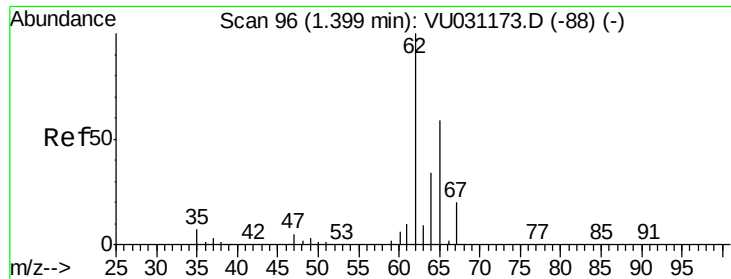
Instrument :
MSVOA_U
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.086 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampled :

BFC35

Tot Ion: 62 Resp: 14053

Ion Ratio Lower Upper

62 100

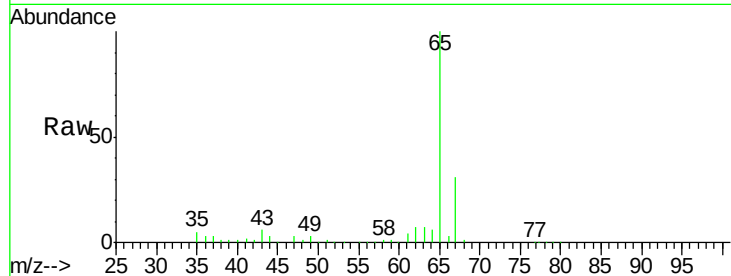
64 75.8 21.5 39.9#

Manual Integrations

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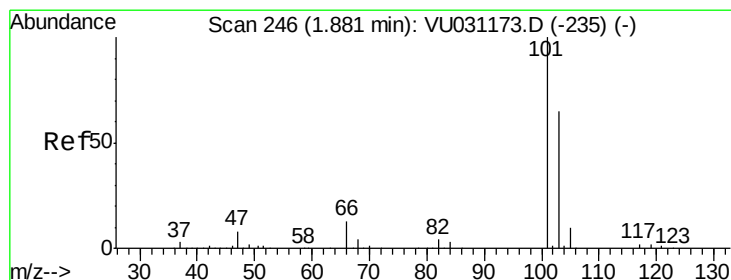
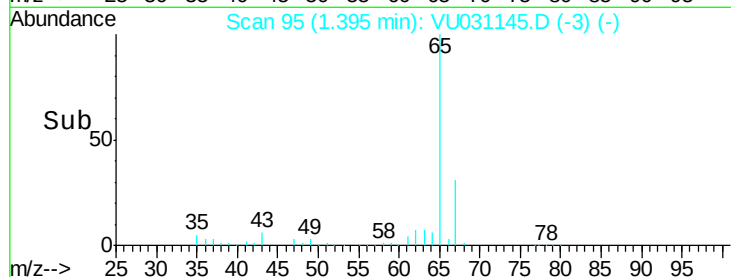
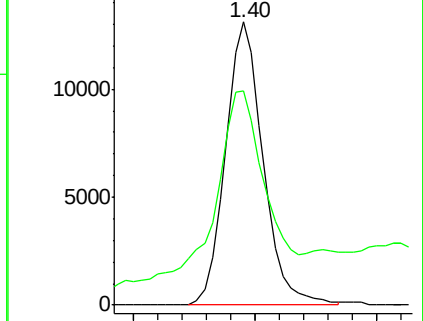
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Abundance Ion 62.00 (61.70 to 62.70): VU031173.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031173.D (-88) (-)



#9

Trichlorofluoromethane

Concen: 2.395 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU031145.D

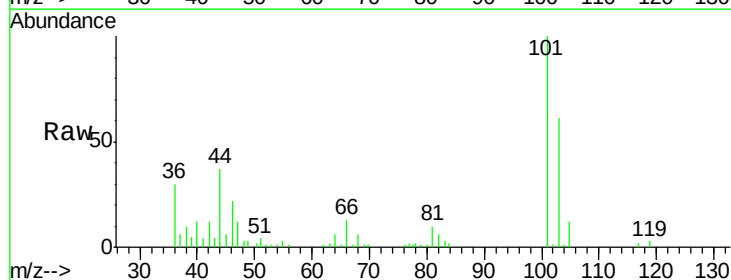
Acq: 12 Apr 2019 21:40

Tgt Ion: 101 Resp: 18798

Ion Ratio Lower Upper

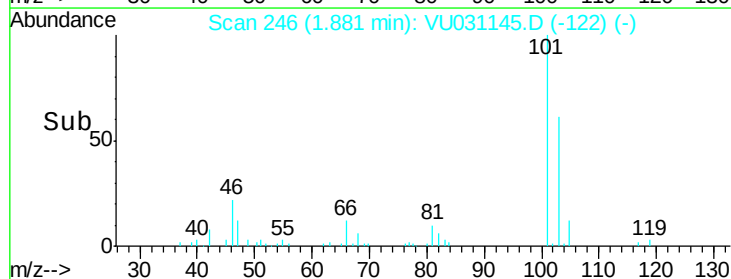
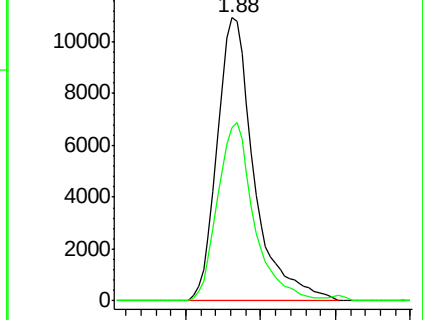
101 100

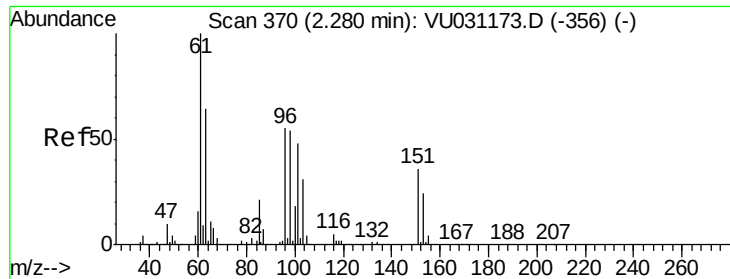
103 62.5 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU031173.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU031173.D (-235) (-)





#10

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

Concen: 12.818 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

Instrument :

MSVOA_U

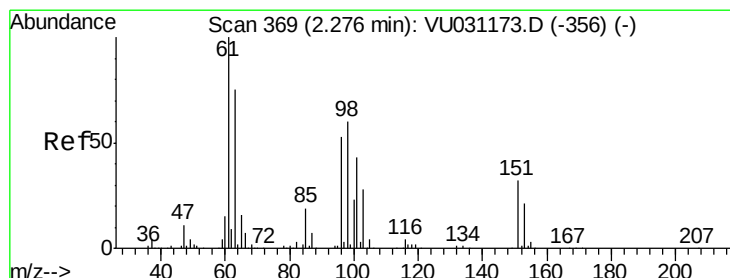
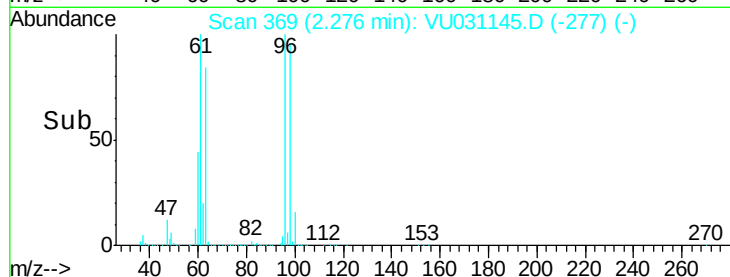
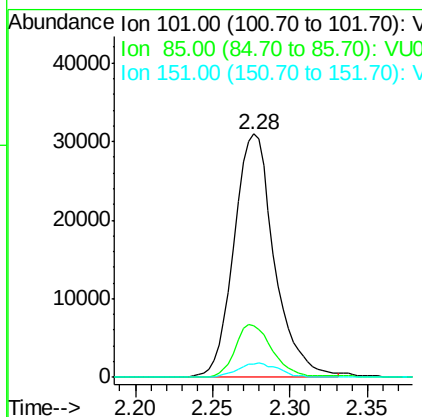
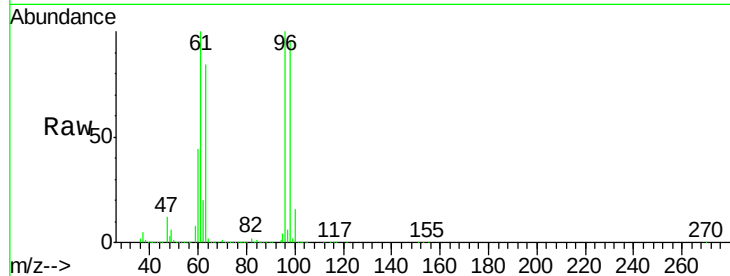
ClientSampleId :

BFC35

Tot Ion:	101	Resp:	56222
Ion Ratio	Lower	Upper	
101	100		
85	20.3	36.8	55.2#
151	5.7	57.4	86.0#

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#12

1,1-Dichloroethene

Concen: 4447.541 ug/L m

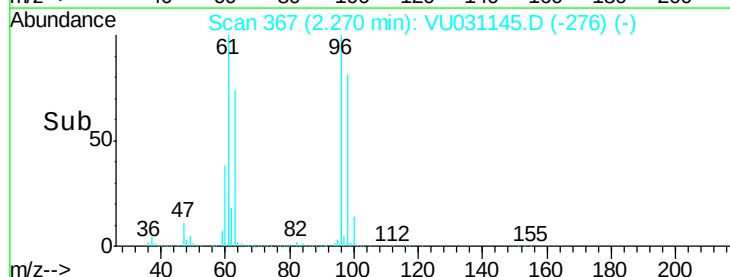
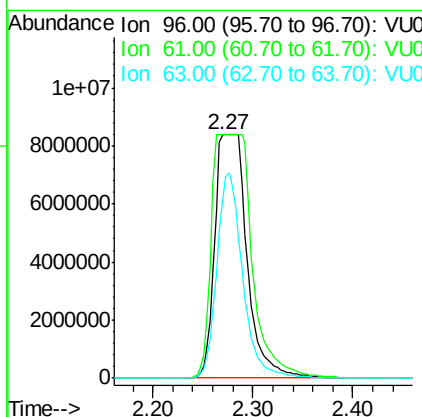
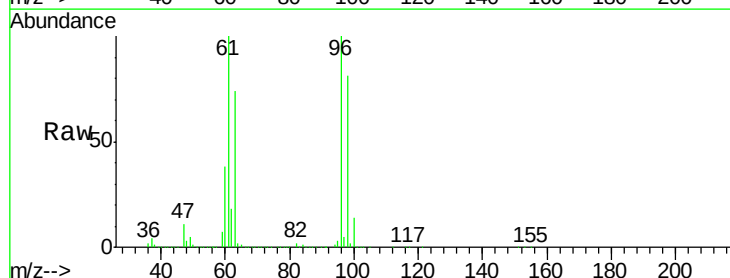
RT: 2.27 min Scan# 367

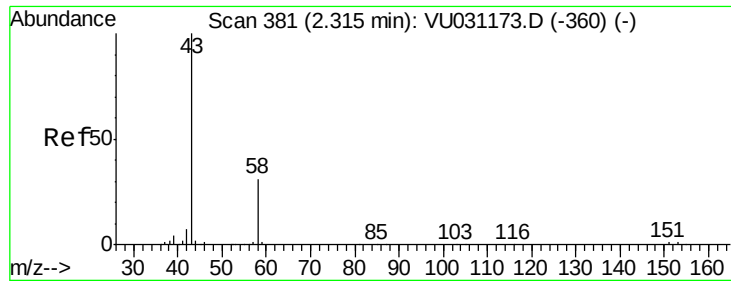
Delta R.T. -0.01 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

Tgt Ion:	96	Resp:	18831797
Ion Ratio	Lower	Upper	
96	100		
61	100.0	132.0	245.2#
63	74.1	90.9	168.9#





#13

Acetone

Concen: 24.829 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampled :

BFC35

Tot Ion: 43 Resp: 110107

Ion Ratio Lower Upper

43 100

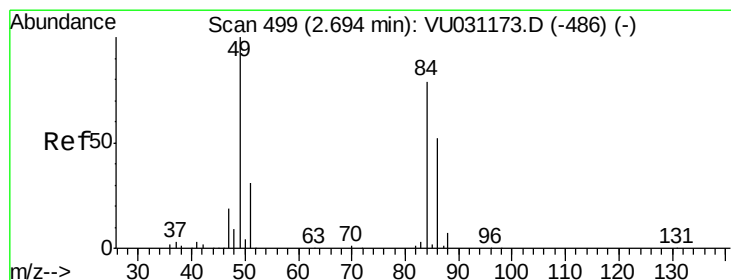
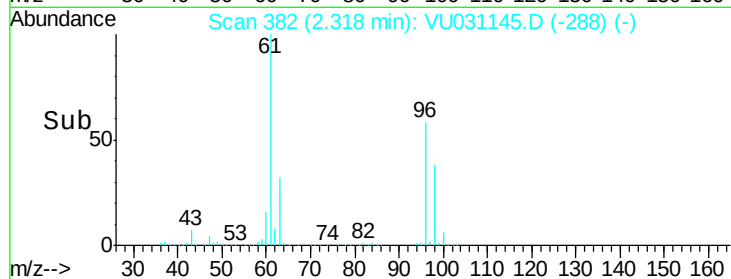
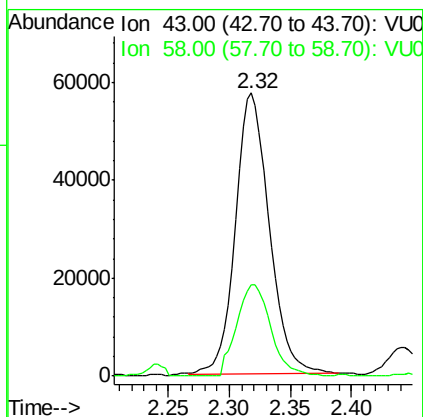
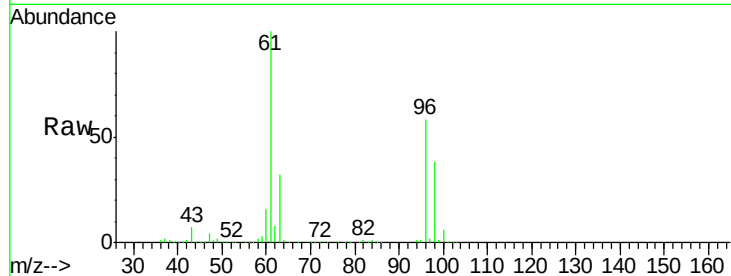
58 32.8 0.0 64.0

Manual Integrations

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#16

Methylene chloride

Concen: 26.751 ug/L

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

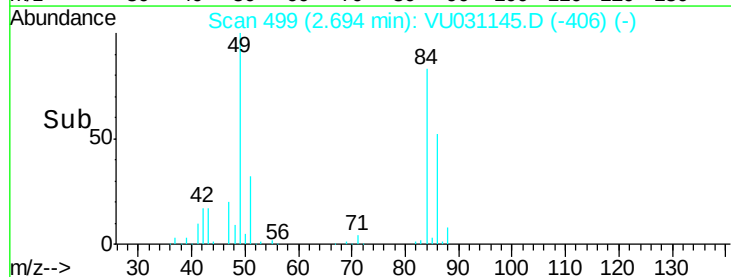
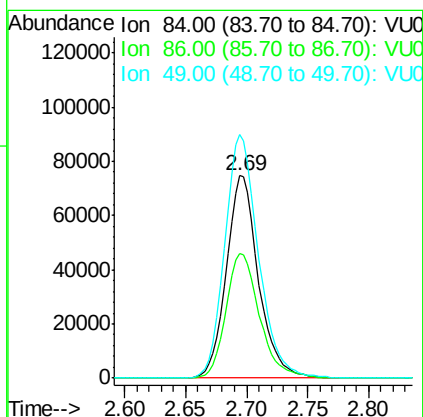
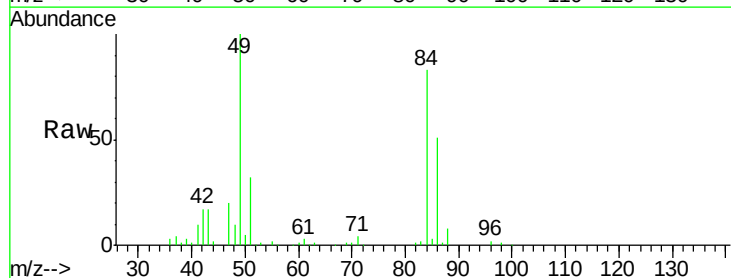
Tgt Ion: 84 Resp: 137601

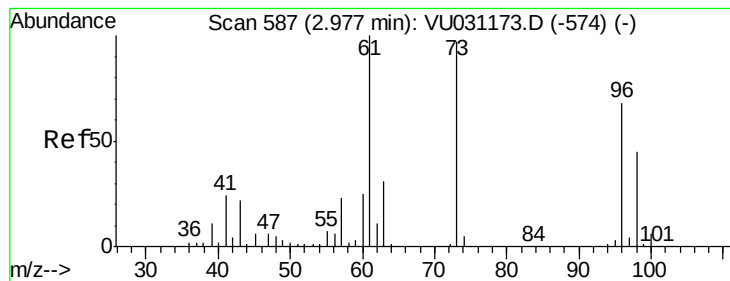
Ion Ratio Lower Upper

84 100

86 61.8 45.1 83.7

49 120.5 96.5 179.1





#17

trans-1,2-Dichloroethene

Concen: 3.290 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampled :

BFC35

Tot Ion: 96 Resp: 14793

Ion Ratio Lower Upper

96 100

61 152.3 109.5 203.3

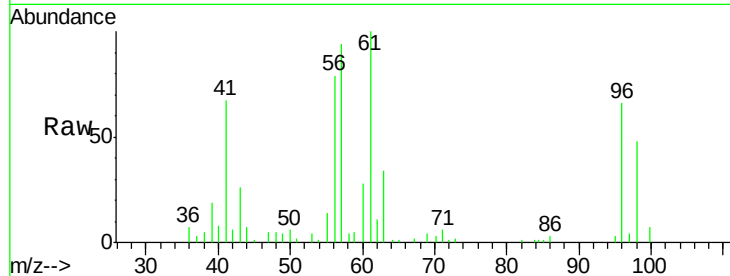
98 72.4 44.0 81.6

Manual Integrations

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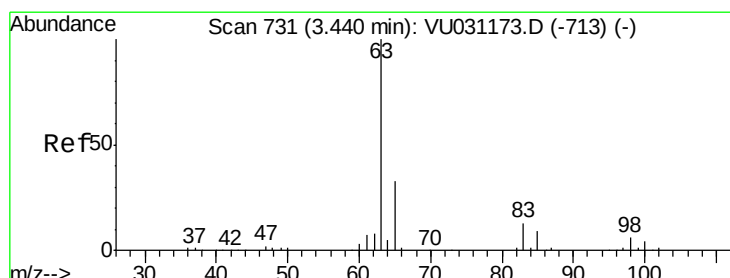
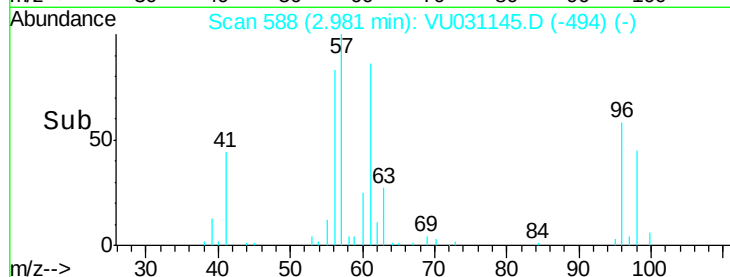
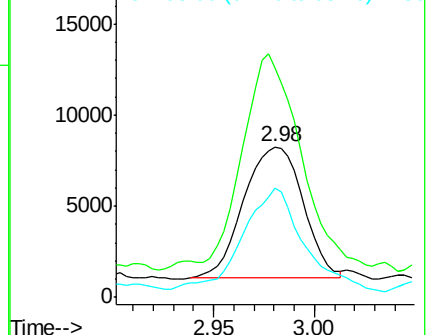
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Abundance Ion 96.00 (95.70 to 96.70): VU031173.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031173.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031173.D (-574) (-)



#19

1,1-Dichloroethane

Concen: 83.950 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

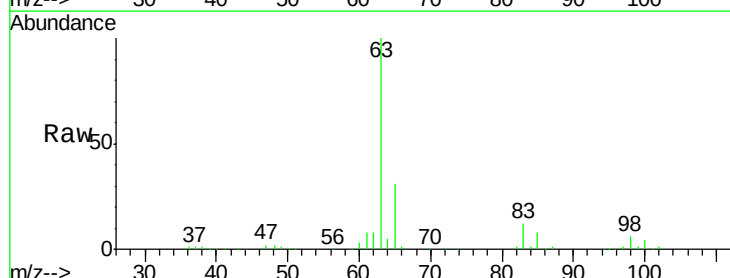
Tgt Ion: 63 Resp: 778882

Ion Ratio Lower Upper

63 100

65 31.3 21.4 39.8

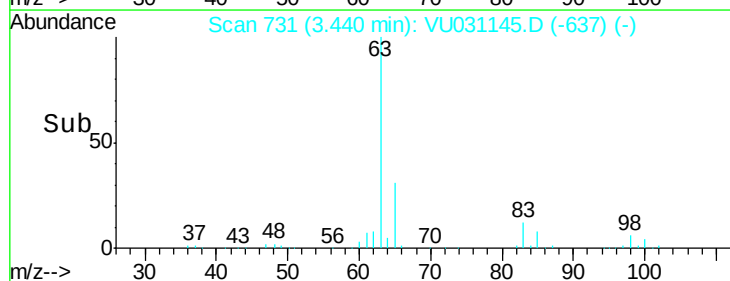
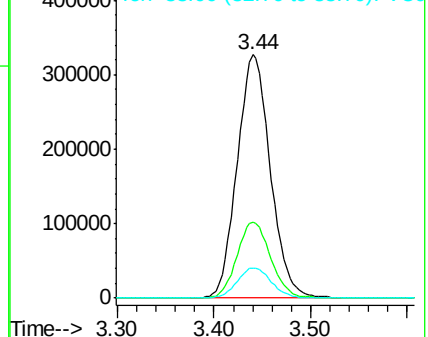
83 12.3 8.5 15.7

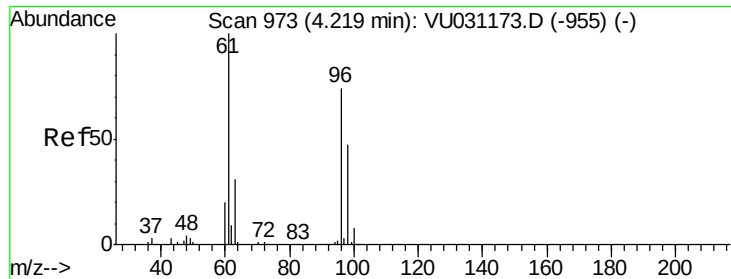


Abundance Ion 63.00 (62.70 to 63.70): VU031173.D (-713) (-)

Ion 65.00 (64.70 to 65.70): VU031173.D (-713) (-)

Ion 83.00 (82.70 to 83.70): VU031173.D (-713) (-)





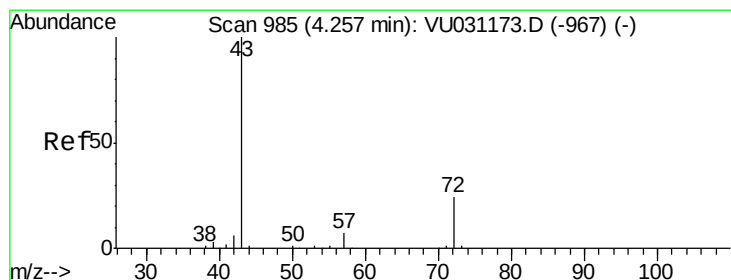
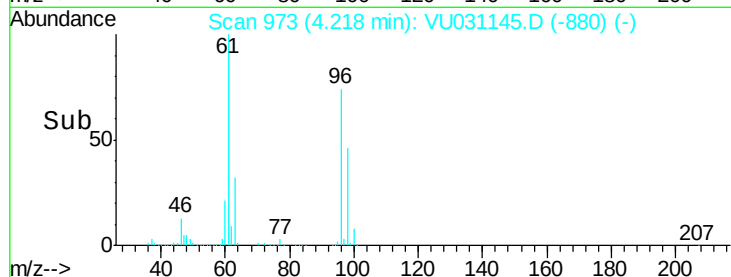
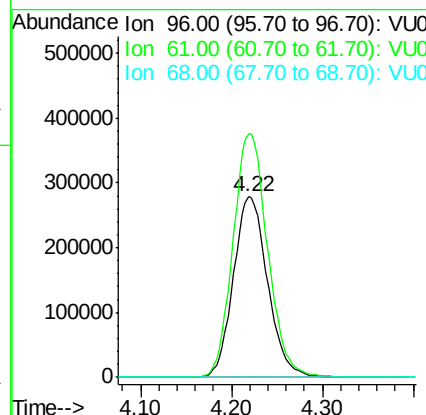
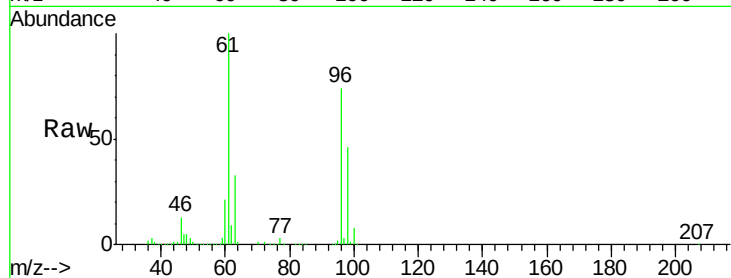
#20
 cis-1,2-Dichloroethene
 Concen: 146.641 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031145.D
 Acq: 12 Apr 2019 21:40

Instrument :
 MSVOA_U
 ClientSampleId :
 BFC35

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.0	102.9	191.1
68	0.0	0.0	0.0

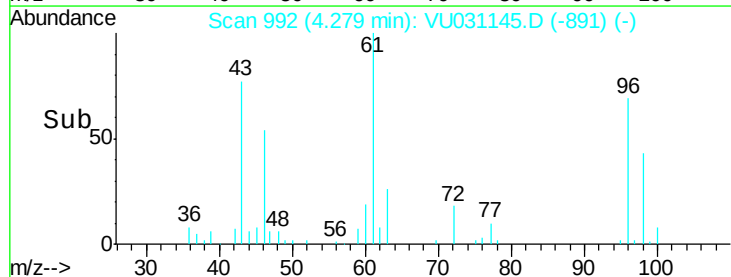
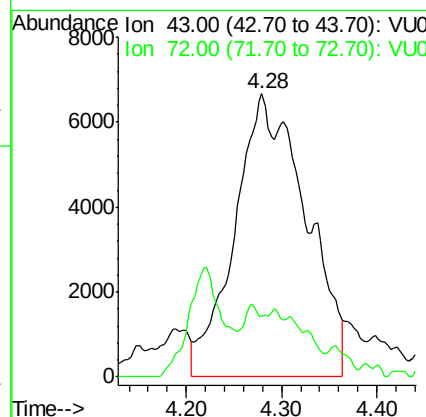
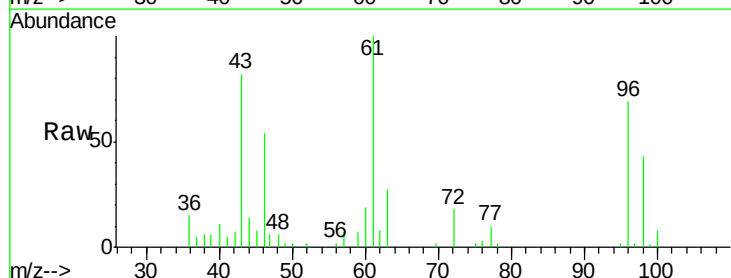
Manual Integrations
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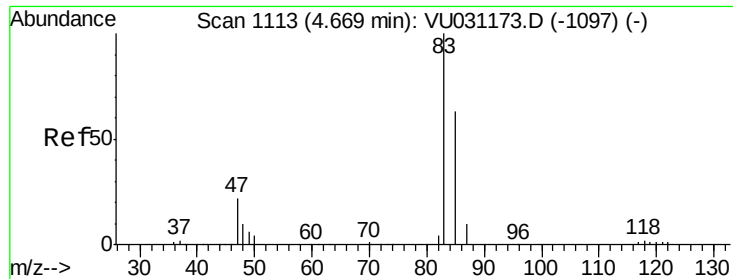
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#22
 2-Butanone
 Concen: 6.640 ug/L m
 RT: 4.28 min Scan# 992
 Delta R.T. 0.03 min
 Lab File: VU031145.D
 Acq: 12 Apr 2019 21:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.1	10.8	32.4#





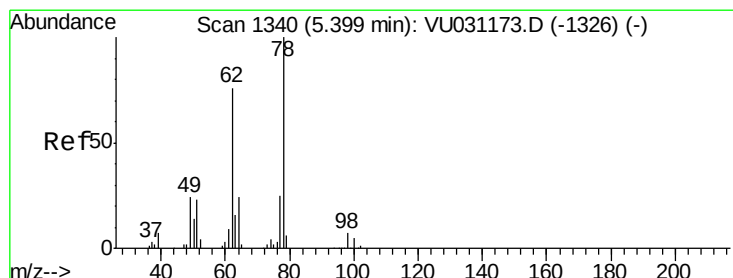
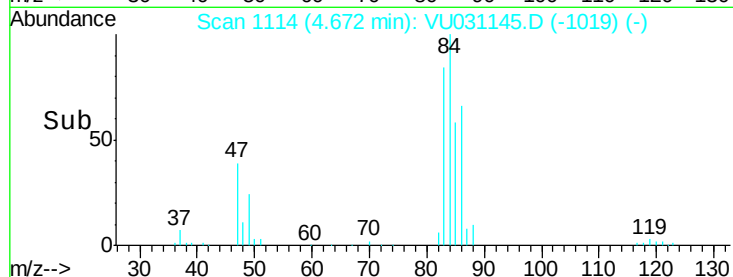
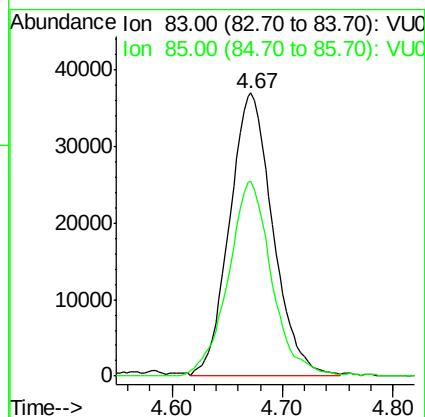
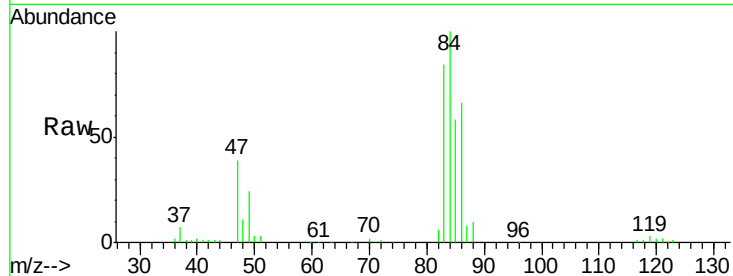
#25
Chloroform
Concen: 10.810 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VU031145.D
Acq: 12 Apr 2019 21:40

Instrument :
MSVOA_U
ClientSampleId :
BFC35

Tot Ion	83	Resp	100807
Ion Ratio	100	Lower	Upper
85	68.7	45.8	85.0

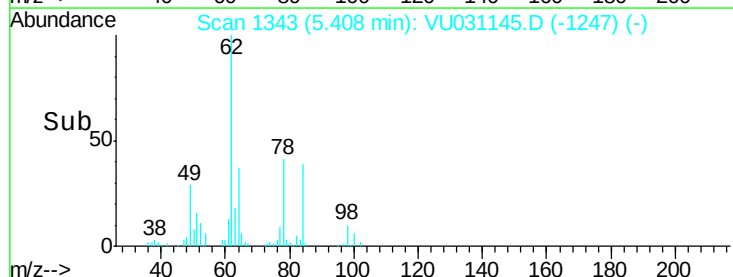
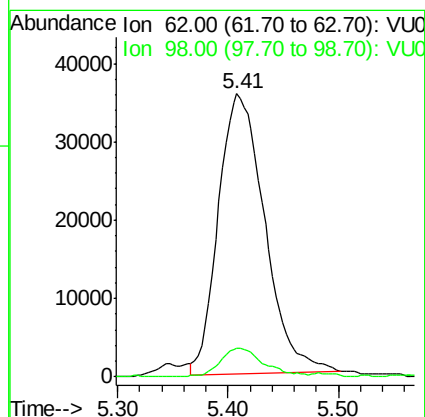
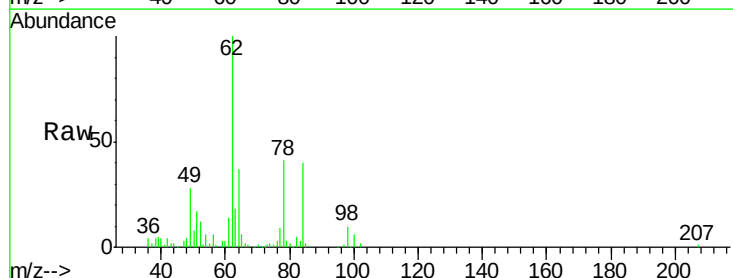
Manual Integrations
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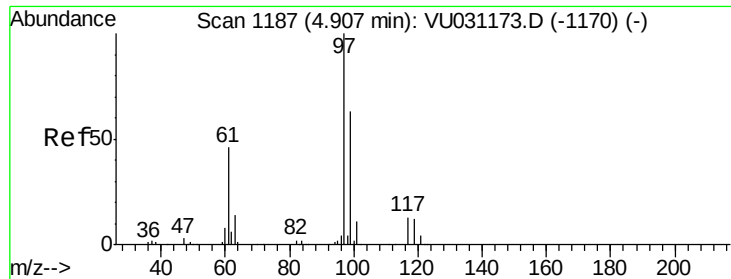
MMDadoda
4/15/2019 12:48:37 PM



#27
1,2-Dichloroethane
Concen: 14.656 ug/L
RT: 5.41 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VU031145.D
Acq: 12 Apr 2019 21:40

Tgt Ion	62	Resp	104309
Ion Ratio	100	Lower	Upper
98	10.2	7.2	10.8





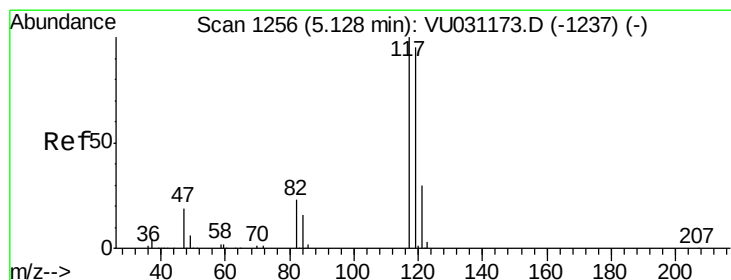
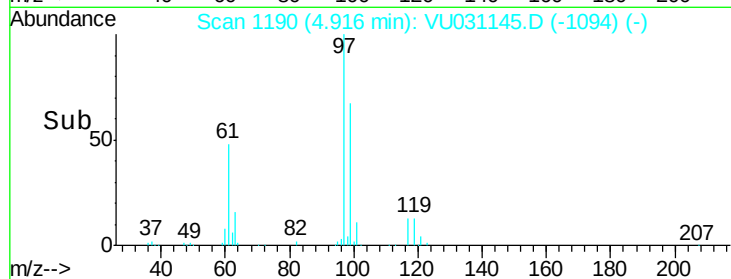
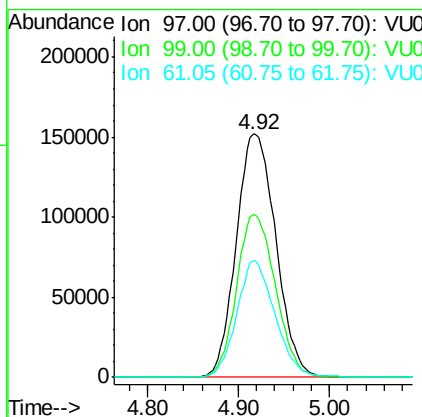
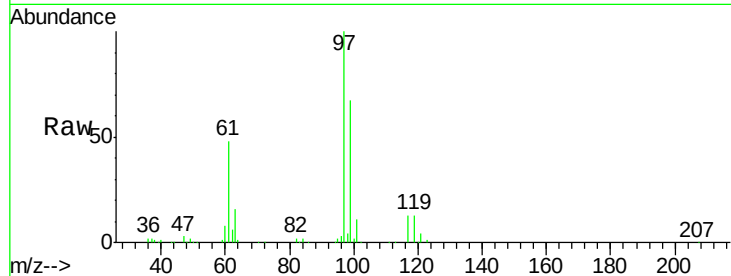
#30
 1,1,1-Trichloroethane
 Concen: 63.858 ug/L
 RT: 4.92 min Scan# 1190
 Delta R.T. 0.01 min
 Lab File: VU031145.D
 Acq: 12 Apr 2019 21:40

Instrument :
 MSVOA_U
 ClientSampleId :
 BFC35

Tot Ion	Ratio	Resp	Lower	Upper
97	100	460207		
99	65.6		51.4	77.2
61	46.2		37.1	55.7

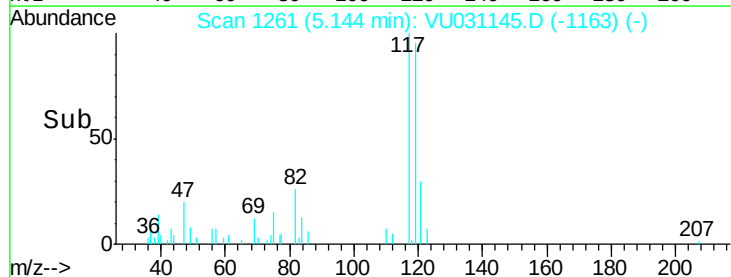
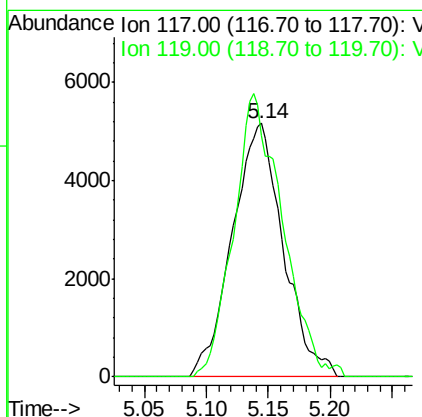
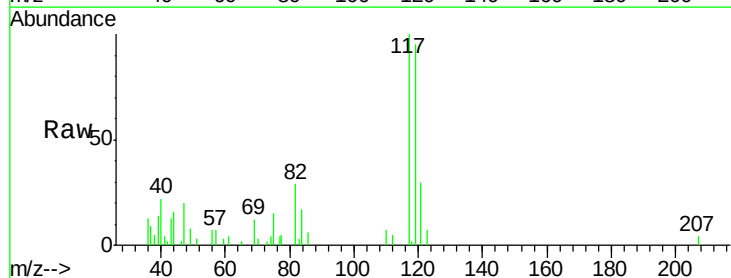
Manual Integrations
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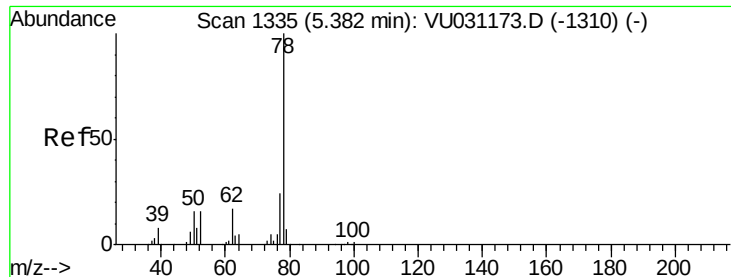
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#31
 Carbon tetrachloride
 Concen: 2.381 ug/L m
 RT: 5.14 min Scan# 1261
 Delta R.T. 0.02 min
 Lab File: VU031145.D
 Acq: 12 Apr 2019 21:40

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	14786		
119	1.0		76.2	114.2





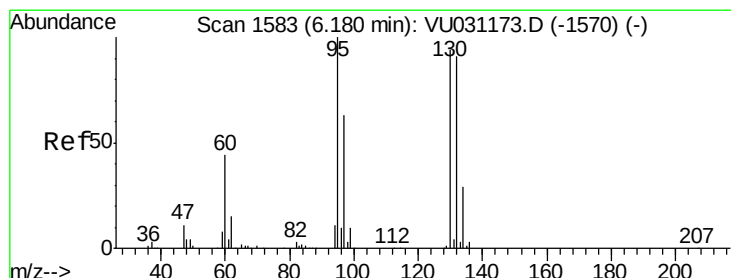
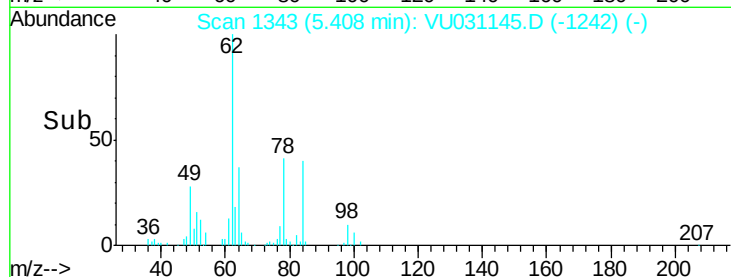
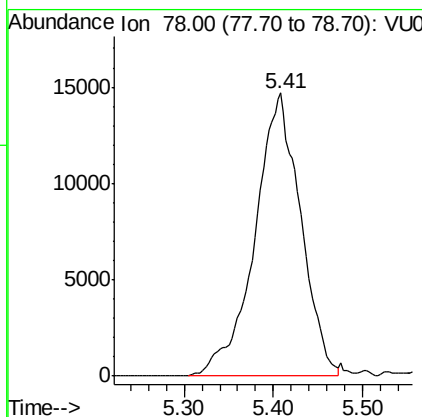
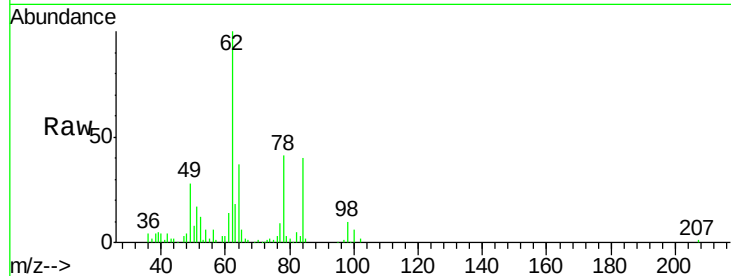
#33
Benzene
Concen: 2.718 ug/L
RT: 5.41 min Scan# 1343
Delta R.T. 0.03 min
Lab File: VU031145.D
Acq: 12 Apr 2019 21:40

Instrument :
MSVOA_U
ClientSampleId :
BFC35

Tgt Ion: 78 Resp: 52591

Manual Integrations
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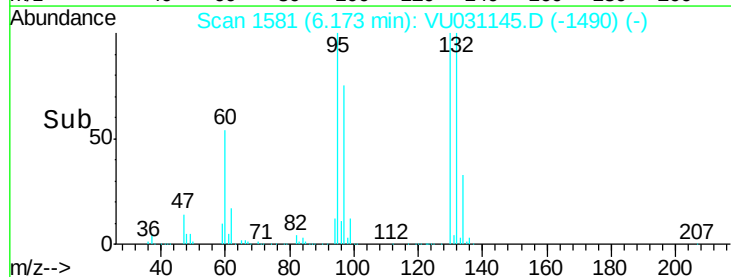
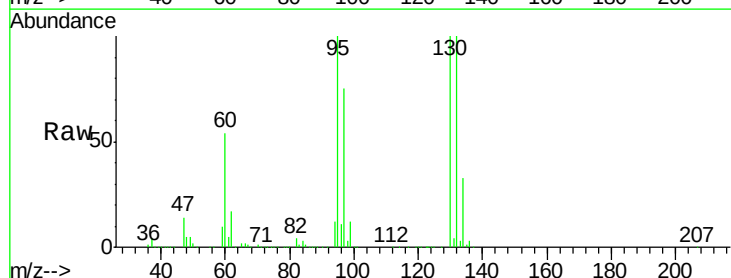
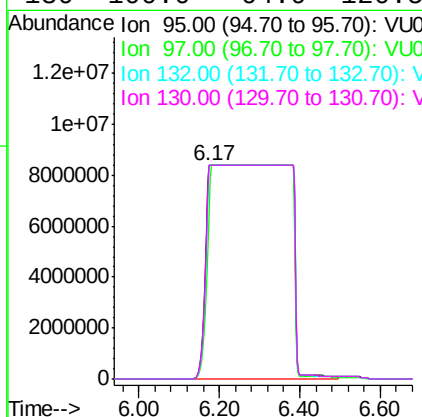
MMDadoda
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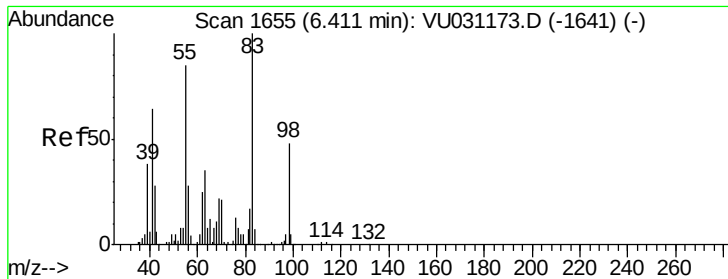


#34
Trichloroethene
Concen: 24402.766 ug/L m
RT: 6.17 min Scan# 1581
Delta R.T. -0.01 min
Lab File: VU031145.D
Acq: 12 Apr 2019 21:40

Tgt Ion: 95 Resp: 115821430

Ion	Ratio	Lower	Upper
95	100		
97	74.9	44.5	82.7
132	100.0	61.5	114.1
130	100.0	64.9	120.5





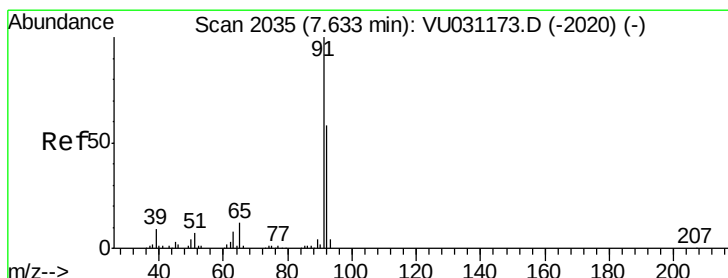
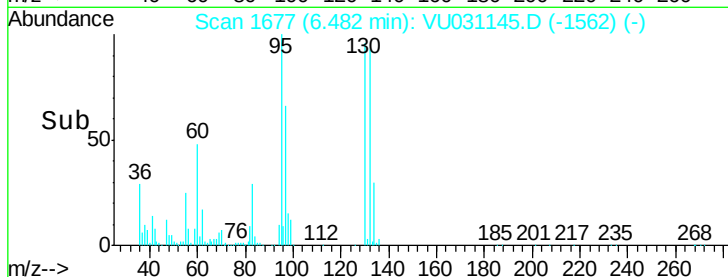
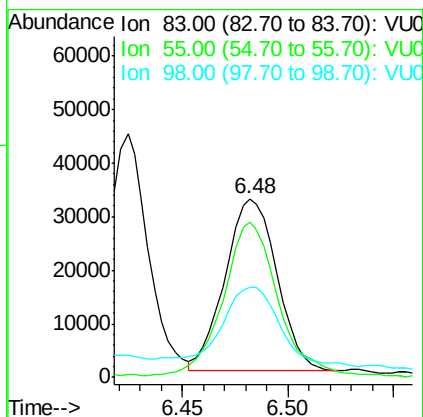
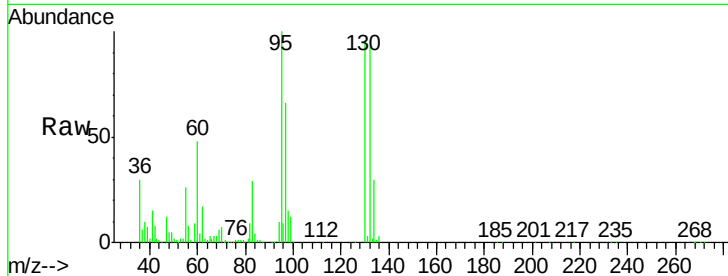
#35
Methylvlcyclohexane
Concen: 7.494 ug/L
RT: 6.48 min Scan# 1677
Delta R.T. 0.07 min
Lab File: VU031145.D
Acq: 12 Apr 2019 21:40

Instrument :
MSVOA_U
ClientSampleId :
BFC35

Tot Ion	83	Resp	54894
Ion Ratio	100	Lower	Upper
55	92.6	71.6	107.4
98	50.3	35.4	53.0

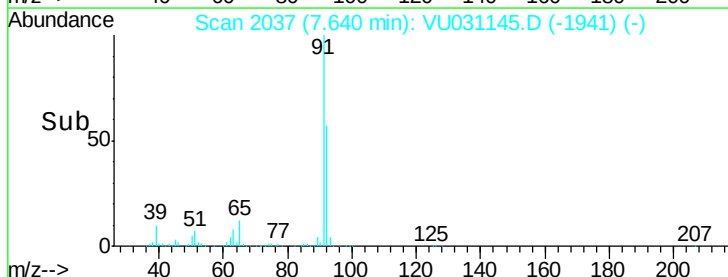
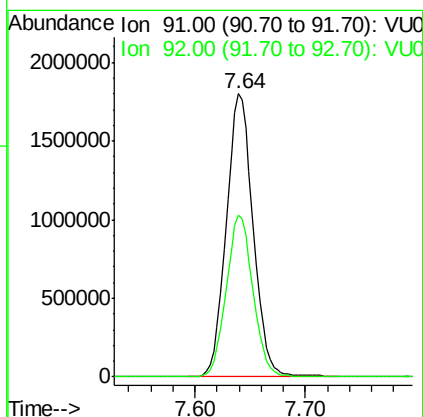
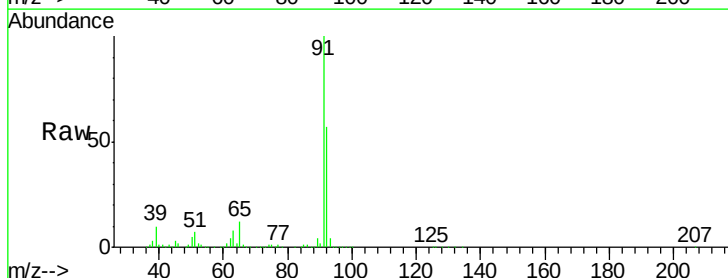
Manual Integrations
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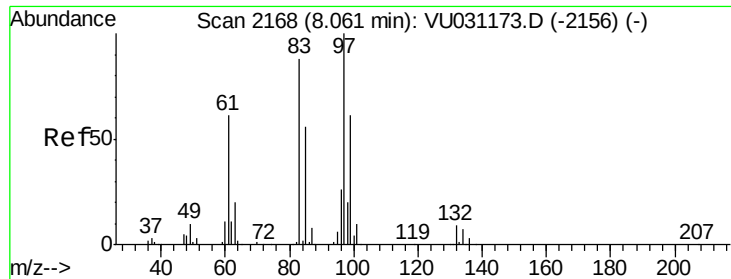
MMDadoda
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#42
Toluene
Concen: 153.671 ug/L
RT: 7.64 min Scan# 2037
Delta R.T. 0.01 min
Lab File: VU031145.D
Acq: 12 Apr 2019 21:40

Tgt Ion	91	Resp	3035479
Ion Ratio	100	Lower	Upper
92	57.1	40.0	74.4





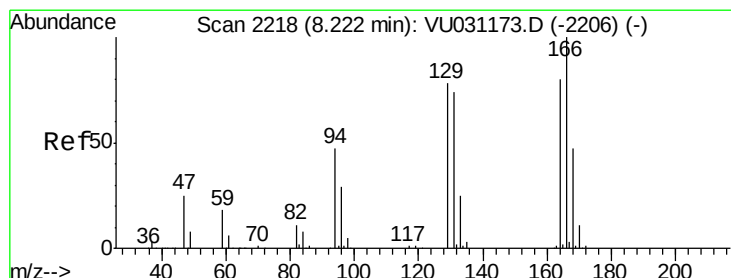
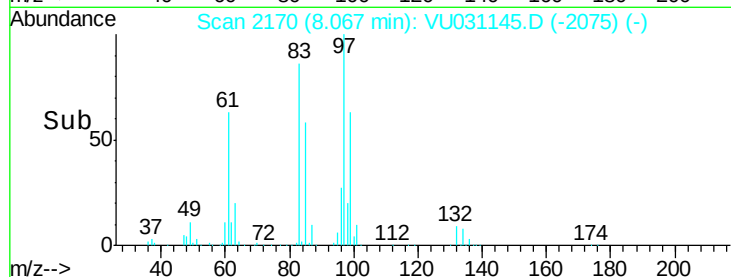
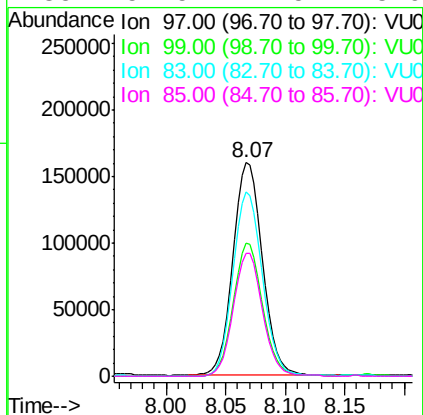
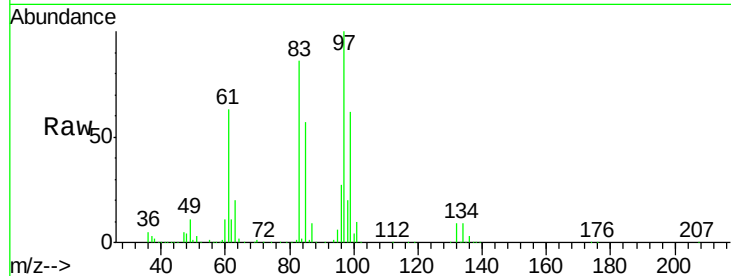
#45
 1,1,2-Trichloroethane
 Concen: 59.218 ug/L
 RT: 8.07 min Scan# 2170
 Delta R.T. 0.01 min
 Lab File: VU031145.D
 Acq: 12 Apr 2019 21:40

Instrument :
 MSVOA_U
 ClientSampled :
 BFC35

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		275196		
99	62.3	44.0	81.8		
83	86.1	65.3	121.3		
85	57.5	42.5	78.9		

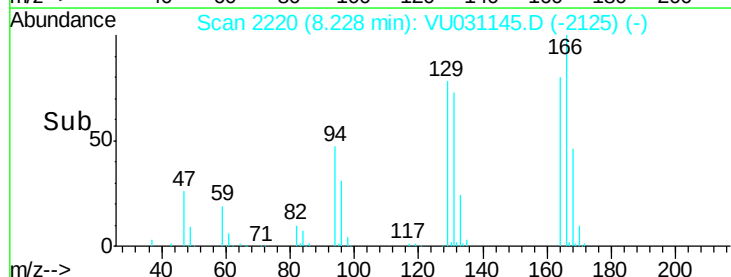
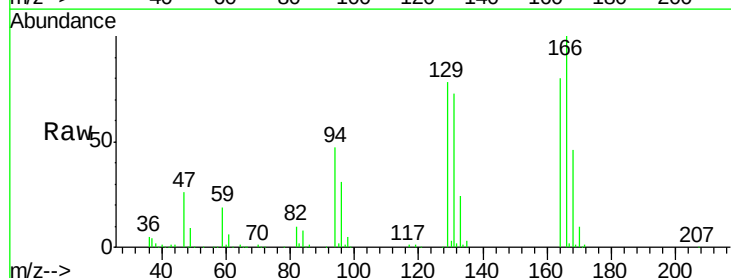
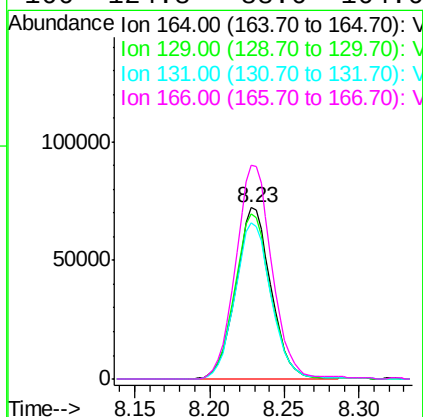
Manual Integrations
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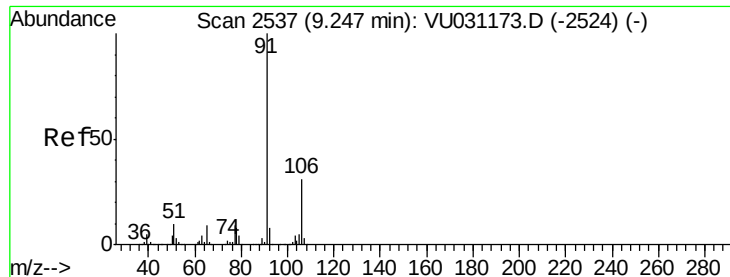
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#46
 Tetrachloroethene
 Concen: 34.252 ug/L
 RT: 8.23 min Scan# 2220
 Delta R.T. 0.01 min
 Lab File: VU031145.D
 Acq: 12 Apr 2019 21:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
164	100		118193		
129	96.8	67.4	125.2		
131	91.1	65.9	122.5		
166	124.8	88.6	164.6		





#52

Ethylbenzene

Concen: 34.194 ug/L

RT: 9.25 min Scan# 2538

Delta R.T. 0.01 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

BFC35

Tot Ion: 91 Resp: 736240

Ion Ratio Lower Upper

91 100

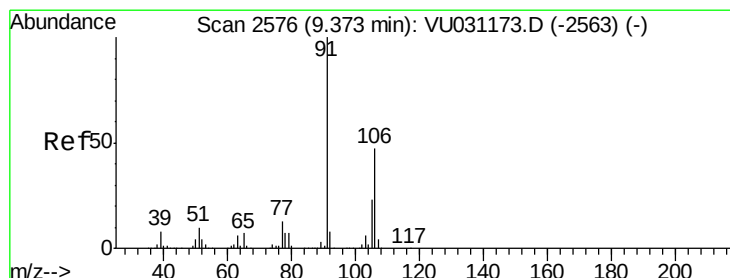
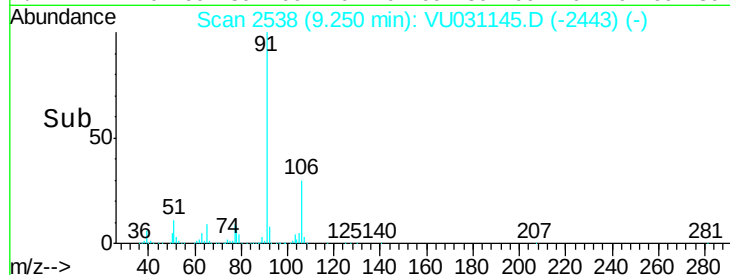
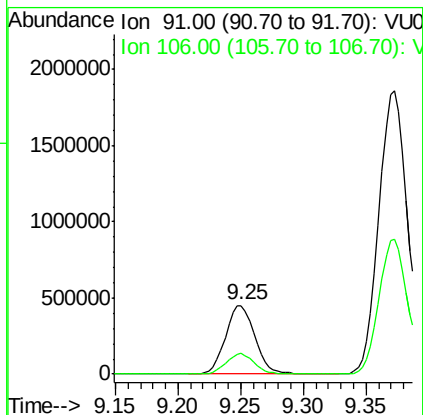
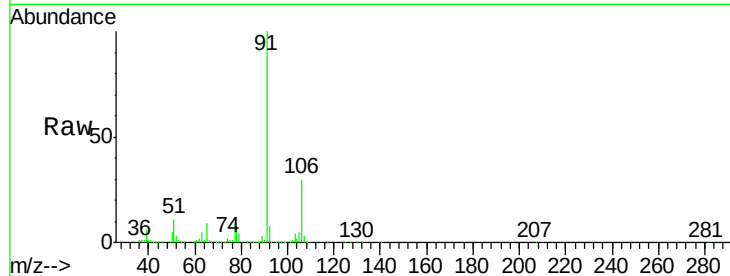
106 29.9 20.4 37.8

Manual Integrations

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#53

m,p-Xylene

Concen: 191.119 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031145.D

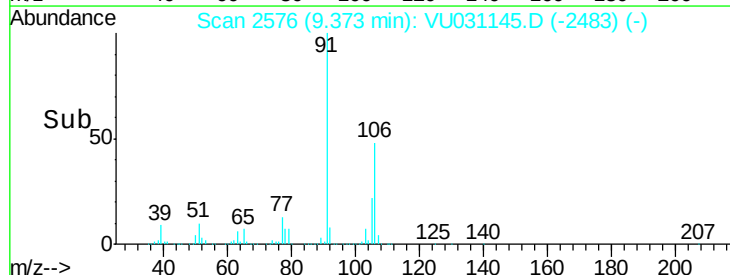
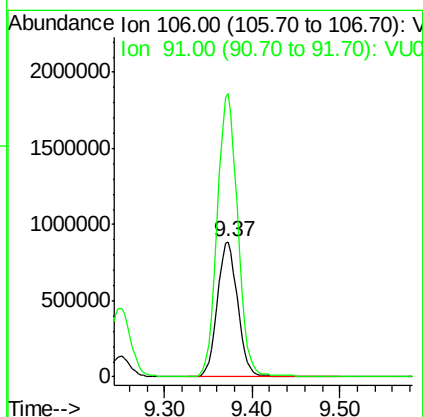
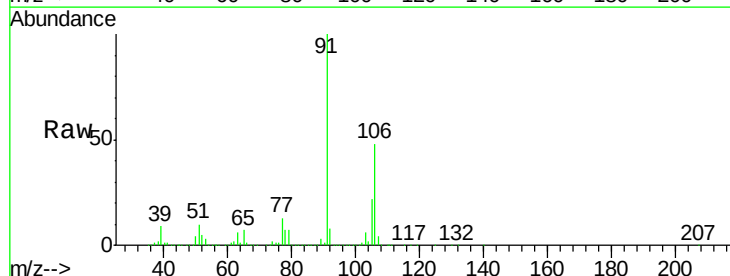
Acq: 12 Apr 2019 21:40

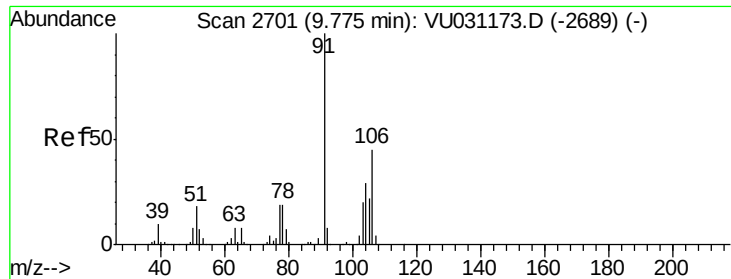
Tgt Ion: 106 Resp: 1435197

Ion Ratio Lower Upper

106 100

91 209.4 148.0 274.8





#54

o-xylene

Concen: 75.190 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampled :

BFC35

Tot Ion:106 Resp: 561635

Ion Ratio Lower Upper

106 100

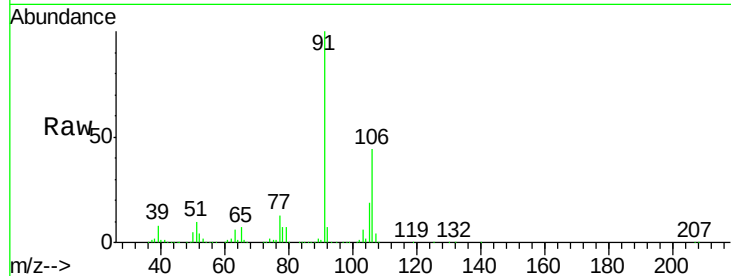
91 227.3 156.7 290.9

Manual Integrations

APPROVED

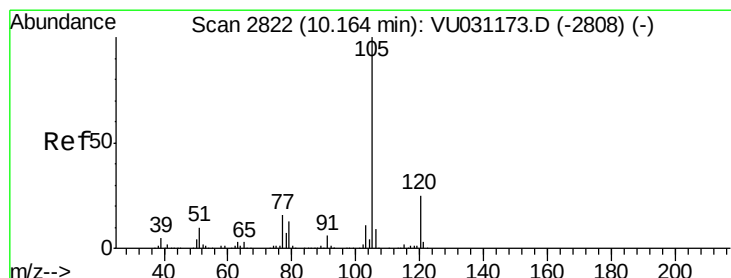
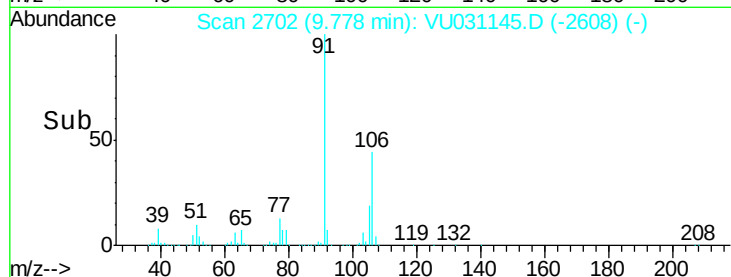
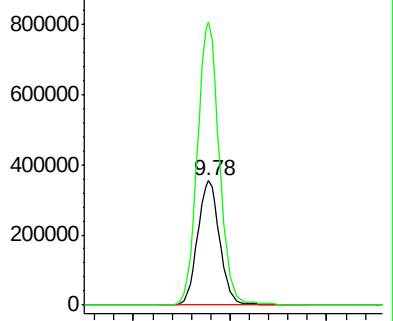
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 1.147 ug/L

RT: 10.17 min Scan# 2823

Delta R.T. 0.00 min

Lab File: VU031145.D

Acq: 12 Apr 2019 21:40

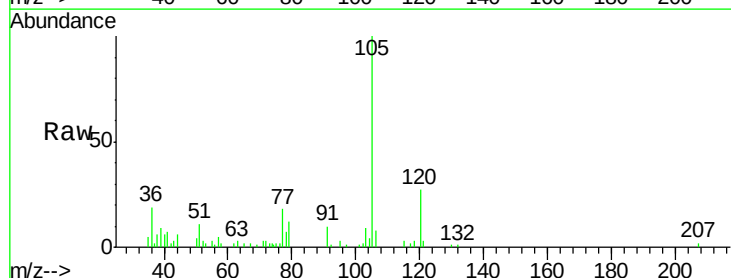
Tgt Ion:105 Resp: 22548

Ion Ratio Lower Upper

105 100

120 25.5 20.4 30.6

77 17.4 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

