

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111318\
 Data File : VU028081.D
 Acq On : 13 Nov 2018 10:37
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:15 AM

Quant Time: Nov 14 07:10:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	164206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	278100	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	258754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	133103	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	134623	55.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.28%	
35) Dibromofluoromethane	4.88	113	99354	56.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.32%	
50) Toluene-d8	7.57	98	381210	56.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.56%	
62) 4-Bromofluorobenzene	10.31	95	144140	57.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	87319	41.849	ug/l	96
3) Chloromethane	1.33	50	129445	51.297	ug/l	99
4) Vinyl Chloride	1.40	62	125085	49.943	ug/l	98
5) Bromomethane	1.60	94	70121	64.394	ug/l	98
6) Chloroethane	1.68	64	76309	52.870	ug/l	98
7) Trichlorofluoromethane	1.88	101	152128	52.564	ug/l	96
8) Diethyl Ether	2.10	74	66728	53.847	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.28	101	94489	54.959	ug/l	99
10) Methyl Iodide	2.41	142	95997	59.121	ug/l	99
11) Tert butyl alcohol	2.83	59	169091	261.628	ug/l	100
12) 1,1-Dichloroethene	2.28	96	86699	50.378	ug/l	98
13) Acrolein	2.19	56	67193	283.548	ug/l	98
14) Allyl chloride	2.59	41	213042	50.650	ug/l	99
15) Acrylonitrile	2.93	53	428909	270.164	ug/l	99
16) Acetone	2.32	43	426882	281.827	ug/l	99
17) Carbon Disulfide	2.48	76	272404	48.426	ug/l	100
18) Methyl Acetate	2.61	43	228861	54.926	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	370860	53.437	ug/l	99
20) Methylene Chloride	2.70	84	116080	52.488	ug/l	97
21) trans-1,2-Dichloroethene	2.98	96	98987	49.841	ug/l	97
22) Diisopropyl ether	3.57	45	465182	53.570	ug/l	99
23) Vinyl Acetate	3.52	43	2030247	272.042	ug/l	100
24) 1,1-Dichloroethane	3.44	63	227494	52.596	ug/l	98
25) 2-Butanone	4.26	43	663277	275.249	ug/l	100
26) 2,2-Dichloropropane	4.22	77	178871	55.106	ug/l	99
27) cis-1,2-Dichloroethene	4.22	96	118336	53.133	ug/l	97
28) Bromochloromethane	4.55	49	119771	59.067	ug/l	97
29) Tetrahydrofuran	4.64	42	411648	255.828	ug/l	100
30) Chloroform	4.67	83	207672	52.364	ug/l	99
31) Cyclohexane	4.99	56	218769	51.595	ug/l	98
32) 1,1,1-Trichloroethane	4.92	97	168561	53.394	ug/l	98
36) 1,1-Dichloropropene	5.13	75	156152	53.612	ug/l	99
37) Ethyl Acetate	4.38	43	229833	53.854	ug/l	99
38) Carbon Tetrachloride	5.13	117	140081	54.270	ug/l	98

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	191907	54.628	ug/l	98
40) Benzene	5.39	78	479757	53.875	ug/l	99
41) Methacrylonitrile	4.54	41	130106	57.126	ug/l	99
42) 1,2-Dichloroethane	5.40	62	170943	54.005	ug/l	99
43) Isopropyl Acetate	5.55	43	369808	55.309	ug/l	99
44) Trichloroethene	6.19	130	105200	54.959	ug/l	95
45) 1,2-Dichloropropane	6.43	63	140692	54.783	ug/l	100
46) Dibromomethane	6.56	93	82875	56.141	ug/l	94
47) Bromodichloromethane	6.76	83	163869	57.603	ug/l	100
48) Methyl methacrylate	6.62	41	185612	56.649	ug/l	99
49) 1,4-Dioxane	6.61	88	64794	1212.093	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	1231253	275.742	ug/l	99
52) Toluene	7.64	92	282001	53.866	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	192036	54.335	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	205954	58.727	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	118757	55.757	ug/l	98
56) Ethyl methacrylate	8.02	69	213513	56.844	ug/l	99
57) 1,3-Dichloropropane	8.24	76	216745	55.864	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	561771	279.256	ug/l	99
59) 2-Hexanone	8.36	43	982428	284.468	ug/l	100
60) Dibromochloromethane	8.48	129	117087	58.093	ug/l	97
61) 1,2-Dibromoethane	8.58	107	122803	54.261	ug/l	98
64) Tetrachloroethene	8.23	164	92756	55.283	ug/l	98
65) Chlorobenzene	9.12	112	296241	54.189	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	105365	56.427	ug/l	99
67) Ethyl Benzene	9.25	91	561082	55.759	ug/l	100
68) m/p-Xylenes	9.38	106	408275	111.822	ug/l	99
69) o-Xylene	9.78	106	199348	54.070	ug/l	97
70) Styrene	9.79	104	333120	56.548	ug/l	99
71) Bromoform	9.96	173	91267	58.321	ug/l #	99
73) Isopropylbenzene	10.17	105	542619	52.623	ug/l	100
74) N-amyl acetate	10.01	43	346669	55.600	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	219585	52.794	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	187008m	51.365	ug/l	
77) Bromobenzene	10.45	156	126162	53.359	ug/l	98
78) n-propylbenzene	10.59	91	674634	54.659	ug/l	99
79) 2-Chlorotoluene	10.66	91	391723	52.948	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	459123	53.750	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	78335m	53.702	ug/l	
82) 4-Chlorotoluene	10.77	91	449292	53.493	ug/l	99
83) tert-Butylbenzene	11.10	119	442537	51.823	ug/l	97
84) 1,2,4-Trimethylbenzene	11.15	105	474745	55.195	ug/l	98
85) sec-Butylbenzene	11.32	105	571729	55.052	ug/l	99
86) p-Isopropyltoluene	11.48	119	477074	54.951	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	233966	53.567	ug/l	100
88) 1,4-Dichlorobenzene	11.51	146	230278	51.438	ug/l	99
89) n-Butylbenzene	11.89	91	465652	56.436	ug/l	100
90) Hexachloroethane	12.15	117	87079	56.337	ug/l	97
91) 1,2-Dichlorobenzene	11.88	146	237440	54.058	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	50011	57.063	ug/l	93

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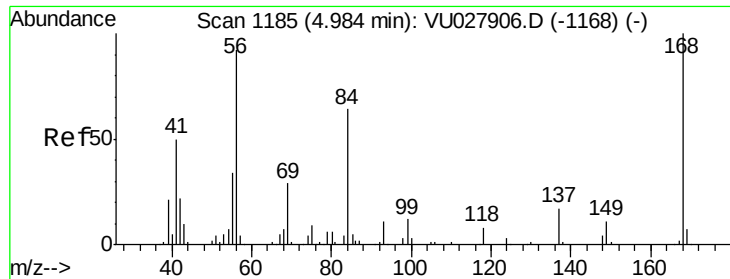
Manual Integrations
APPROVED

MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	150928	49.010	ug/l	100
94) Hexachlorobutadiene	13.69	225	77824	55.749	ug/l	98
95) Naphthalene	13.74	128	539531	49.414	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	157562	53.459	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 164206

Ion Ratio Lower Upper

168 100

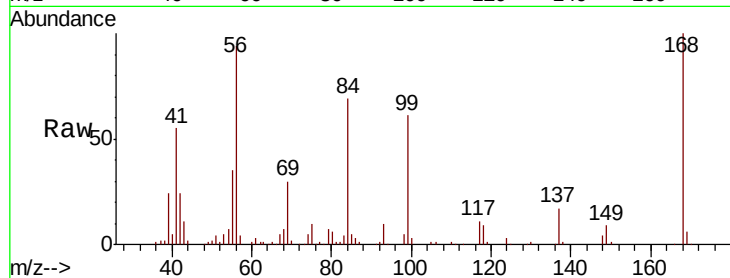
99 60.6 47.9 71.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.98

80000

60000

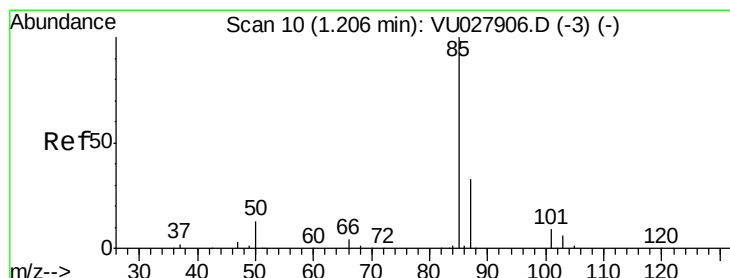
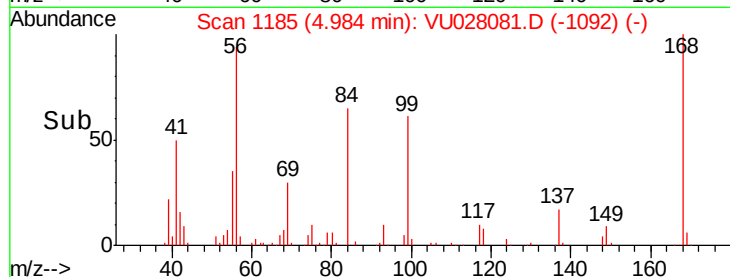
40000

20000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 41.849 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028081.D

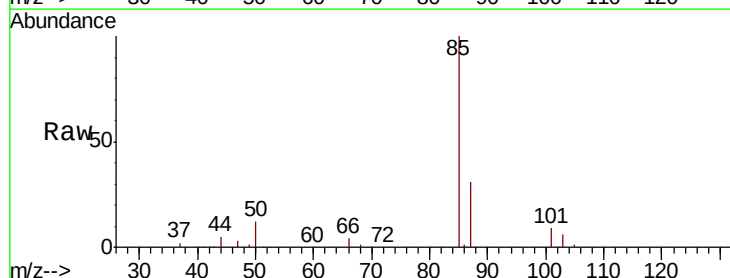
Acq: 13 Nov 2018 10:37

Tgt Ion: 85 Resp: 87319

Ion Ratio Lower Upper

85 100

87 30.9 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU027906.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU027906.D (-3) (-)

1.21

100000

80000

60000

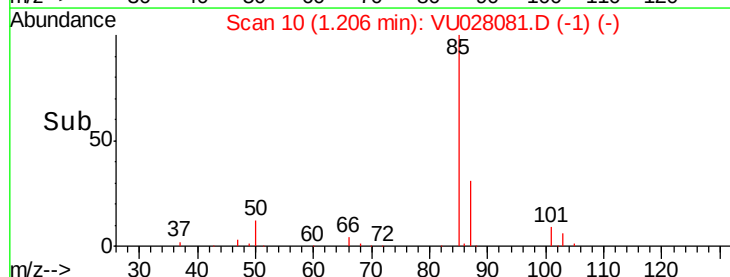
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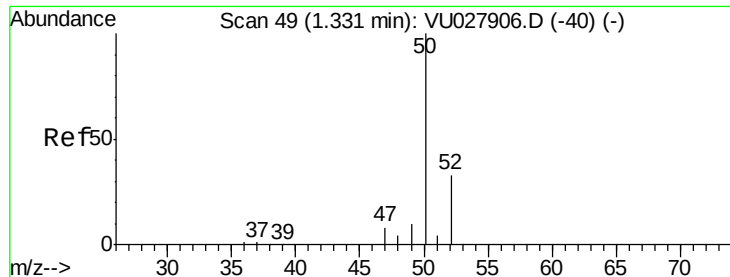
20000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 51.297 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 129445

Ion Ratio Lower Upper

50 100

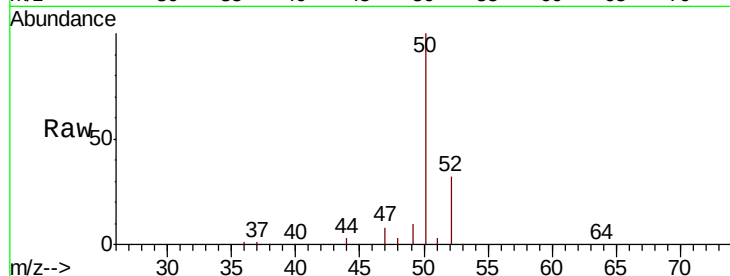
52 32.2 26.2 39.4

Manual Integrations

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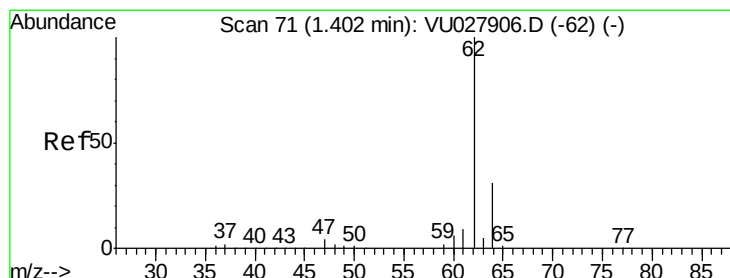
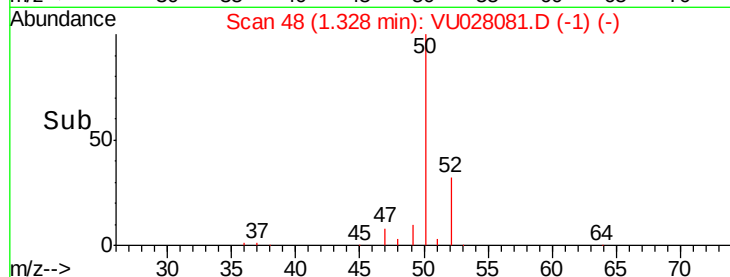
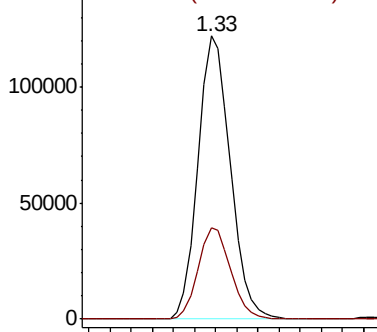
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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 49.943 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028081.D

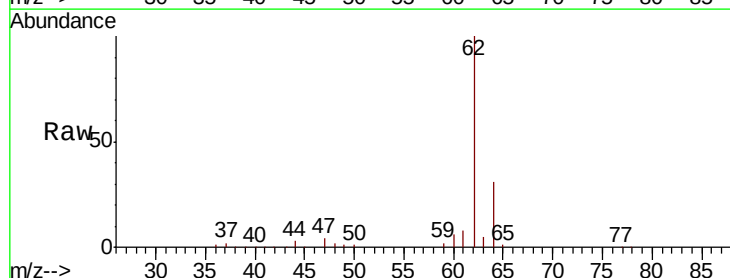
Acq: 13 Nov 2018 10:37

Tgt Ion: 62 Resp: 125085

Ion Ratio Lower Upper

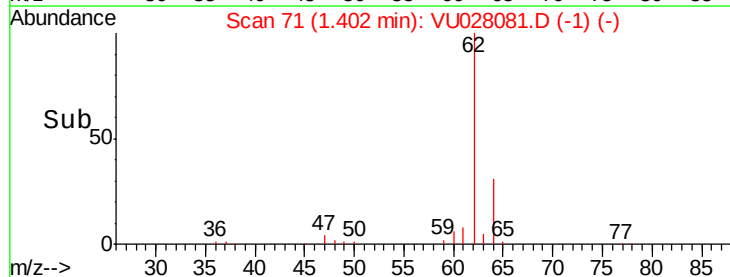
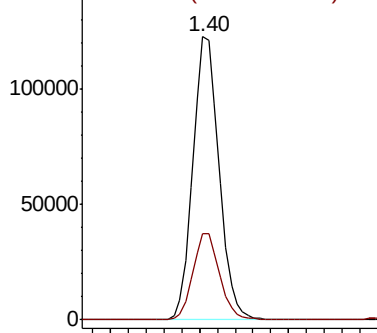
62 100

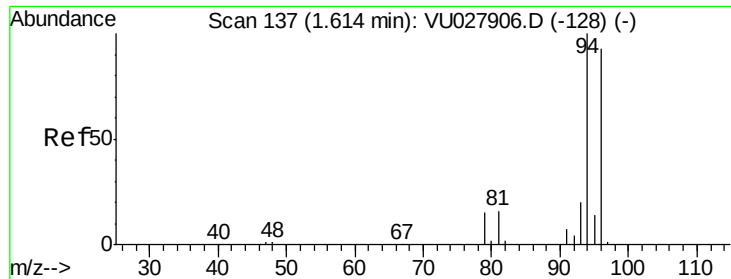
64 30.6 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 64.394 ug/l

RT: 1.60 min Scan# 134

Delta R.T. -0.01 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 70121

Ion Ratio Lower Upper

94 100

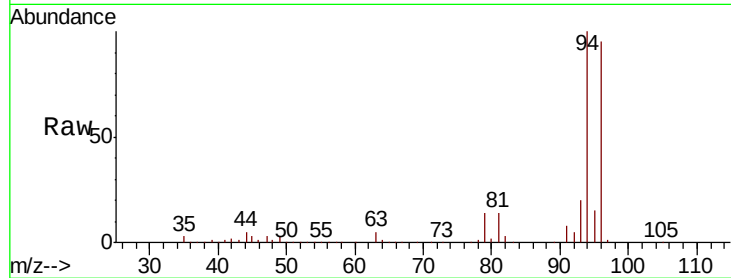
96 95.2 74.8 112.2

Manual Integrations

APPROVED

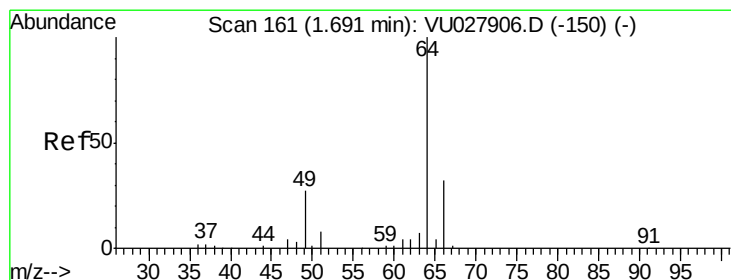
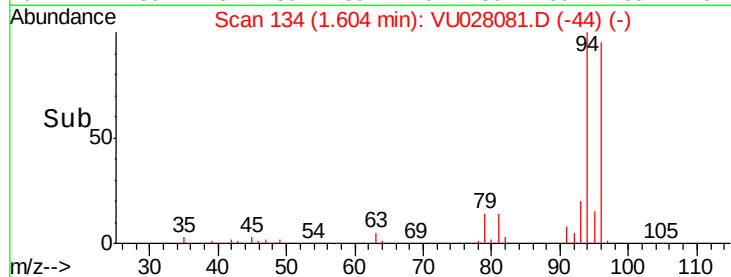
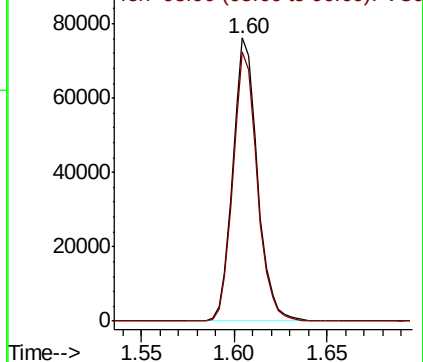
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 52.870 ug/l

RT: 1.68 min Scan# 159

Delta R.T. -0.01 min

Lab File: VU028081.D

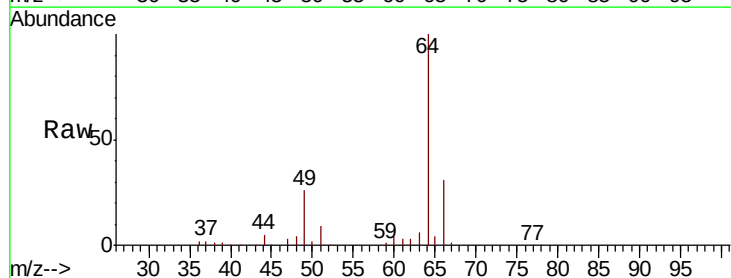
Acq: 13 Nov 2018 10:37

Tgt Ion: 64 Resp: 76309

Ion Ratio Lower Upper

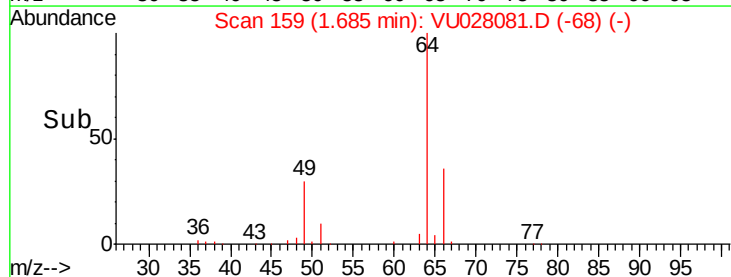
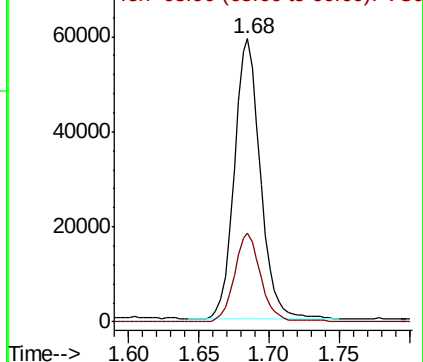
64 100

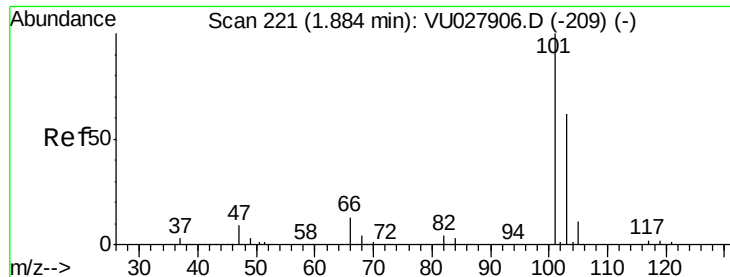
66 31.5 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

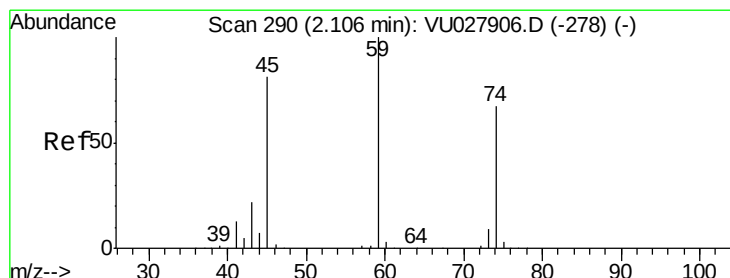
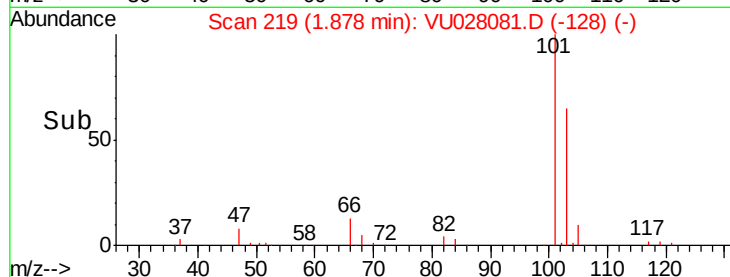
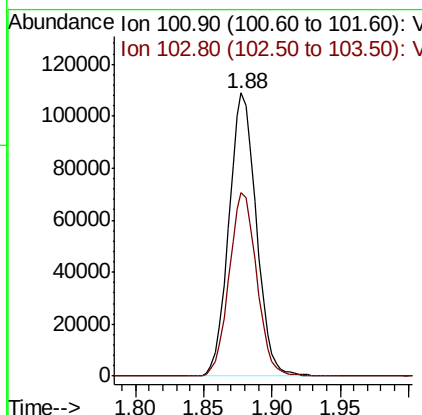
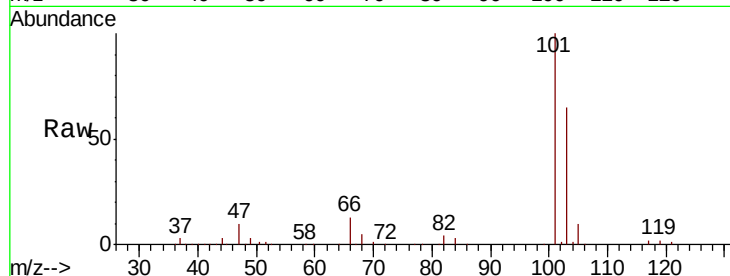
Trichlorofluoromethane
Concen: 52.564 ug/l
RT: 1.88 min Scan# 219
Delta R.T. -0.01 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	49.4	74.2

Manual Integrations
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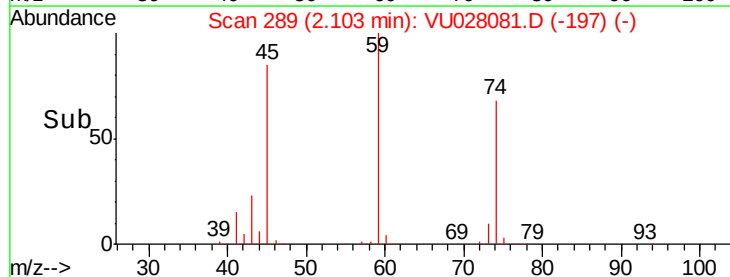
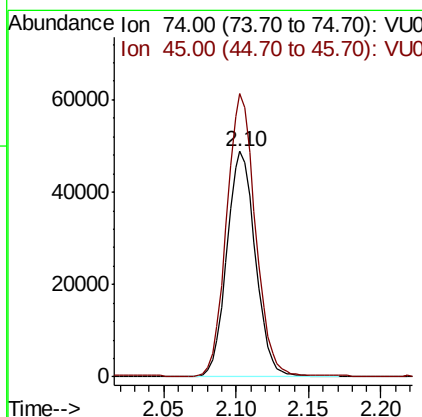
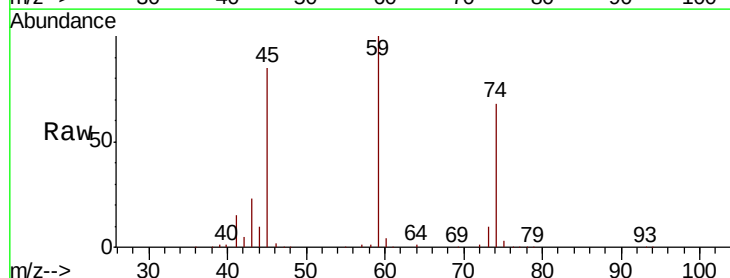
MMDadoda
11/14/2018 9:34:15 AM

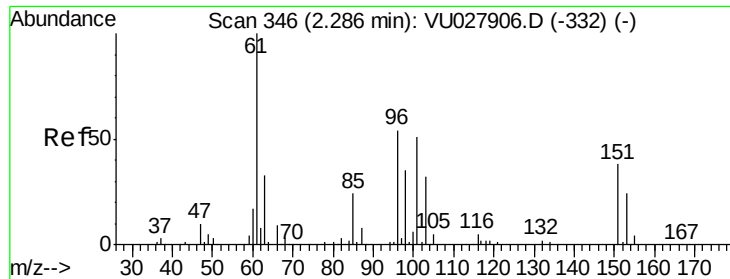


#8

Diethyl Ether
Concen: 53.847 ug/l
RT: 2.10 min Scan# 289
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
74	100		
45	127.1	60.5	181.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 54.959 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

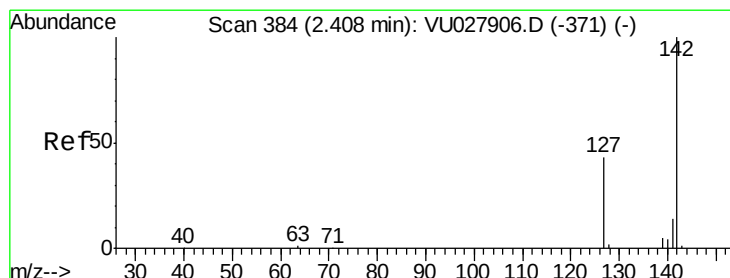
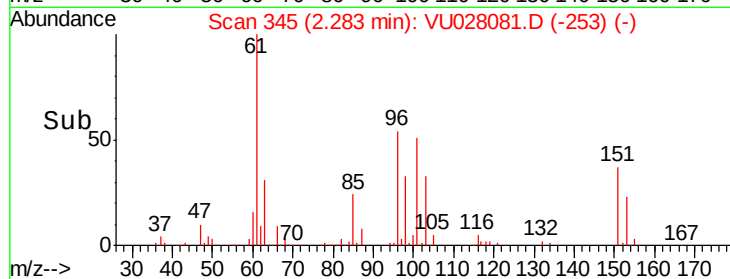
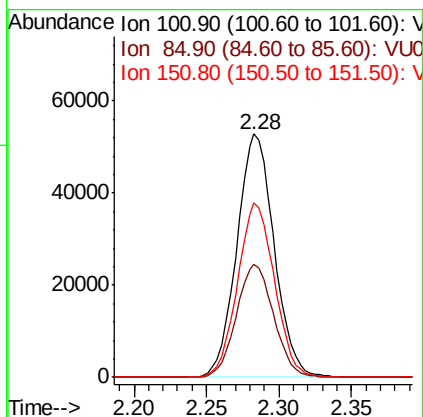
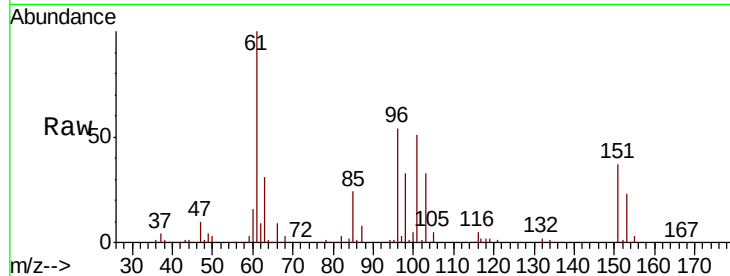
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	94489
Ion Ratio	Lower	Upper	
101	100		
85	46.2	36.9	55.3
151	70.8	58.0	87.0

Manual Integrations
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MMDadoda
11/14/2018 9:34:15 AM



#10

Methyl Iodide

Concen: 59.121 ug/l

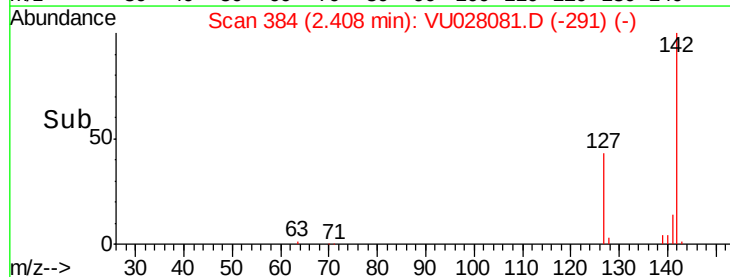
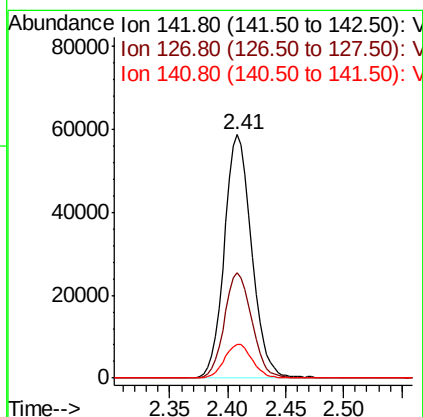
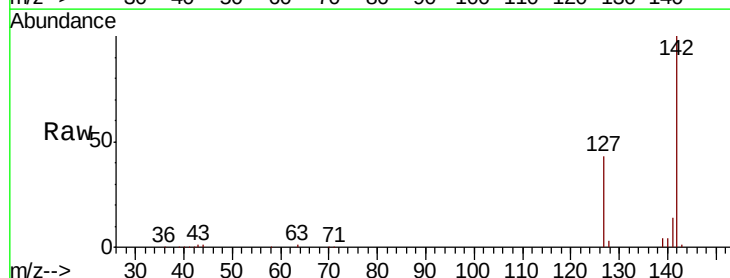
RT: 2.41 min Scan# 384

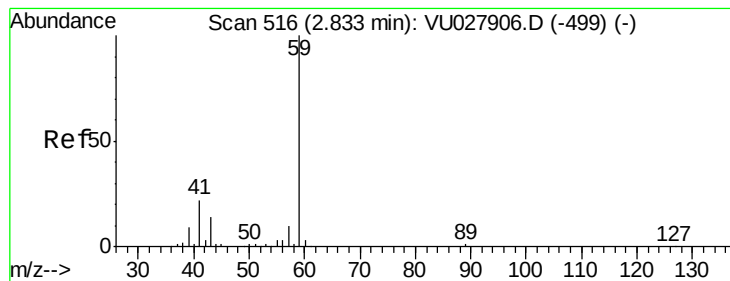
Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Tgt Ion:	142	Resp:	95997
Ion Ratio	Lower	Upper	
142	100		
127	43.5	35.2	52.8
141	14.2	11.8	17.8





#11

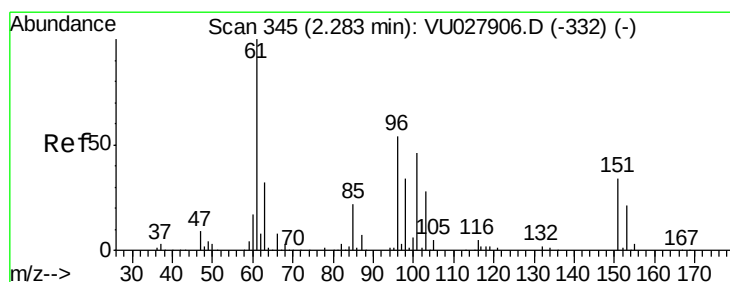
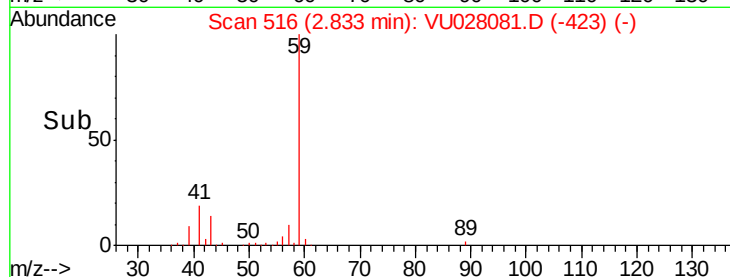
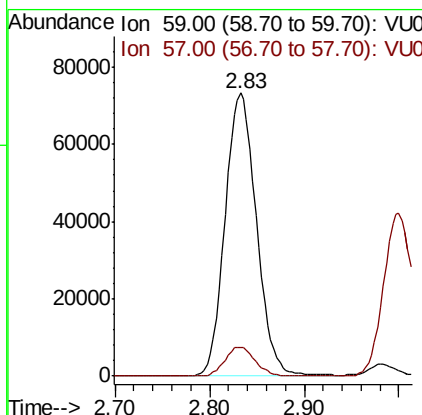
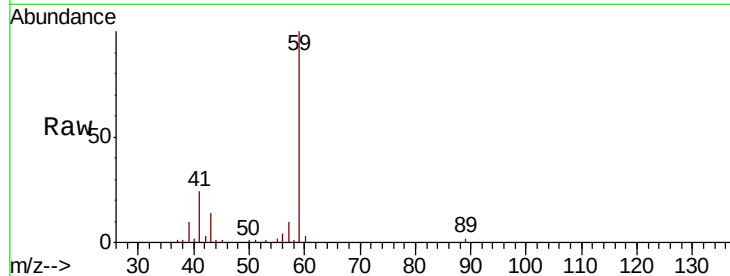
Tert butyl alcohol
Concen: 261.628 ug/l
RT: 2.83 min Scan# 516
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.8	11.8

Manual Integrations
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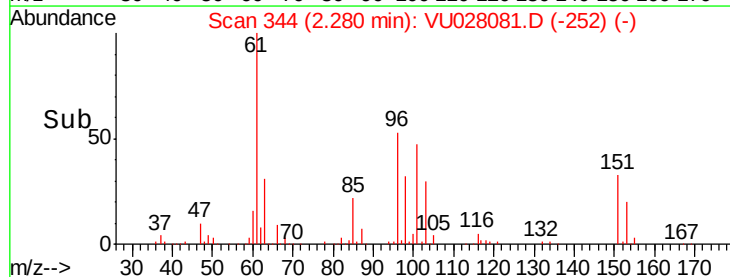
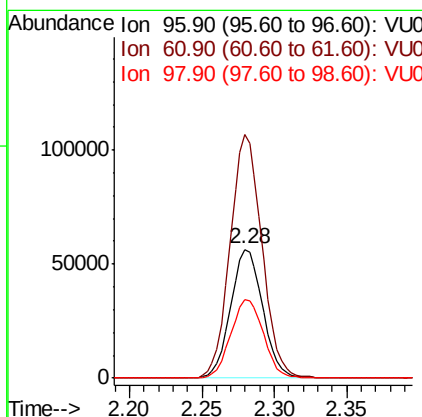
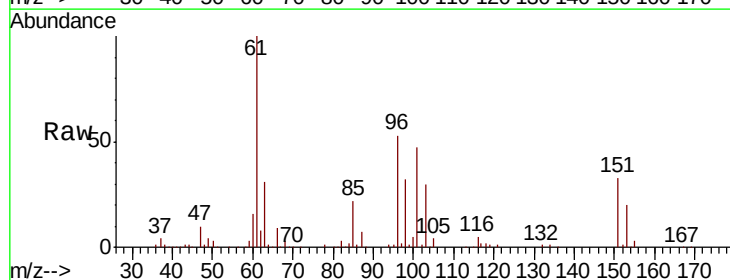
MMDadoda
11/14/2018 9:34:15 AM

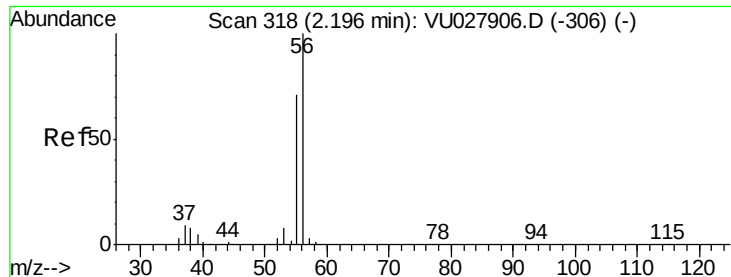


#12

1,1-Dichloroethene
Concen: 50.378 ug/l
RT: 2.28 min Scan# 344
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	189.3	149.3	223.9
98	60.7	50.6	75.8





#13

Acrolein

Concen: 283.548 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 67193

Ion Ratio Lower Upper

56 100

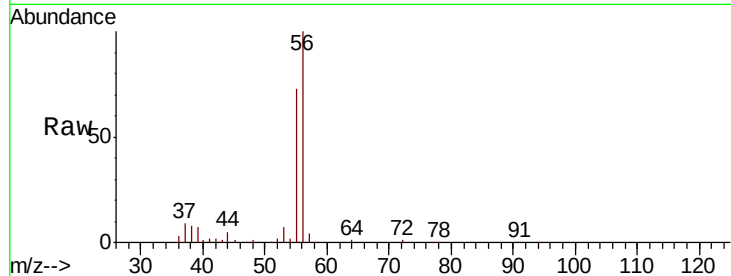
55 71.7 56.2 84.4

Manual Integrations

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MMDadoda

11/14/2018 9:34:15 AM

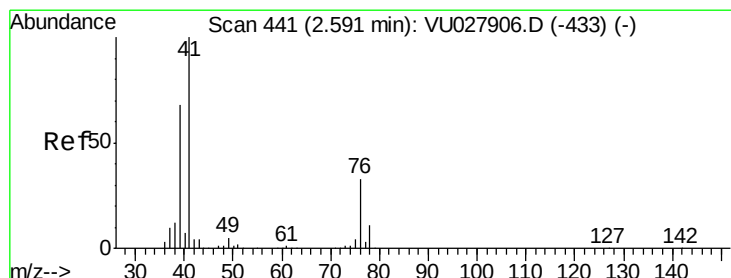
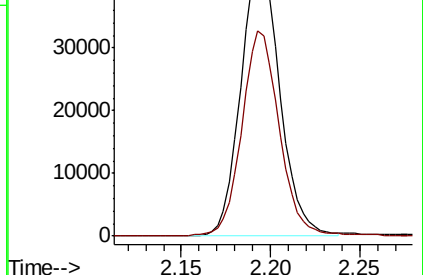
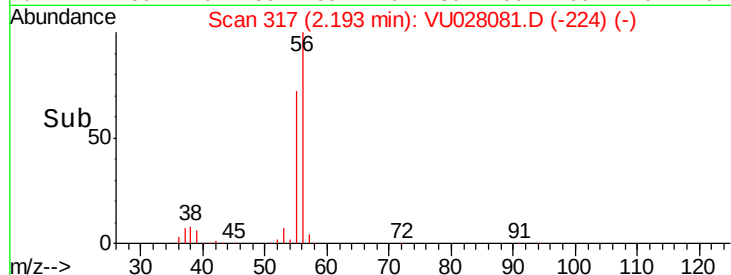


Abundance Ion 56.00 (55.70 to 56.70): VU027906.D (-306) (-)

Ion 55.00 (54.70 to 55.70): VU027906.D (-306) (-)

2.19

Time-->



#14

Allyl chloride

Concen: 50.650 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

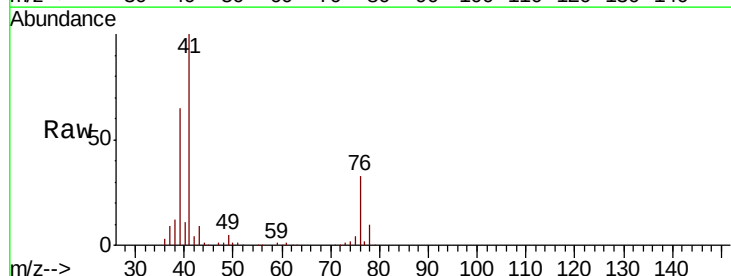
Tgt Ion: 41 Resp: 213042

Ion Ratio Lower Upper

41 100

39 66.1 51.9 77.9

76 30.5 23.8 35.6



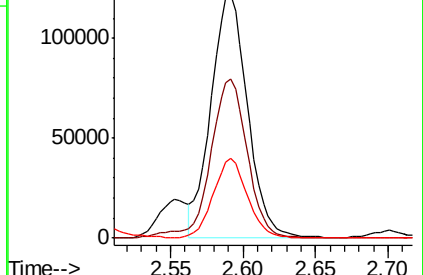
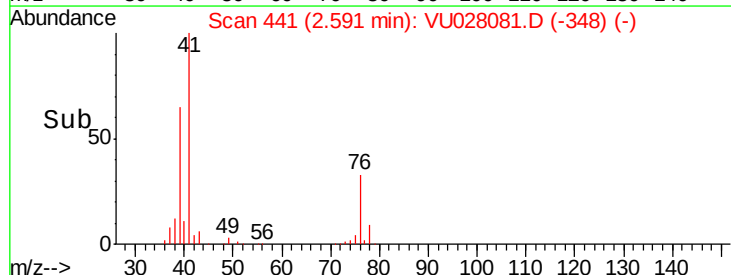
Abundance Ion 41.00 (40.70 to 41.70): VU027906.D (-433) (-)

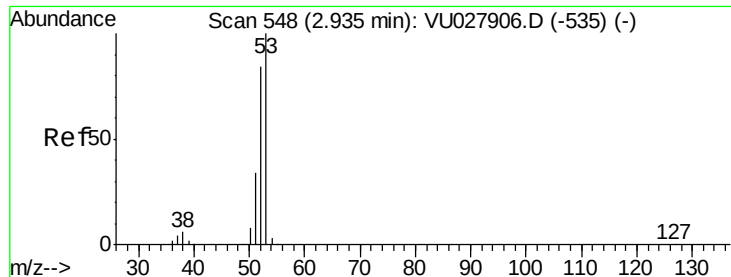
Ion 39.00 (38.70 to 39.70): VU027906.D (-433) (-)

Ion 75.90 (75.60 to 76.60): VU027906.D (-433) (-)

2.59

Time-->





#15

Acrylonitrile

Concen: 270.164 ug/l

RT: 2.93 min Scan# 547

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

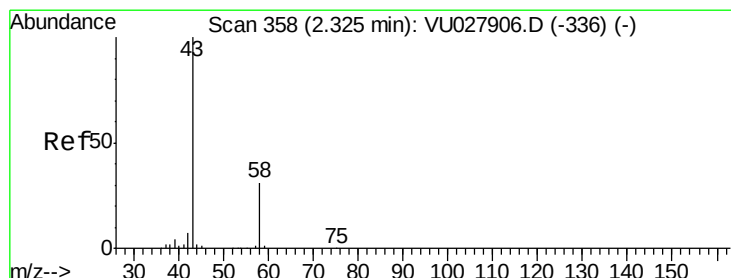
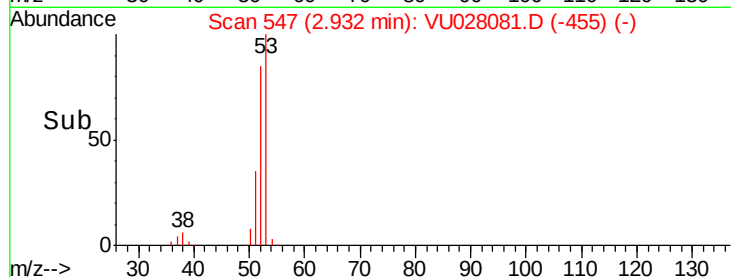
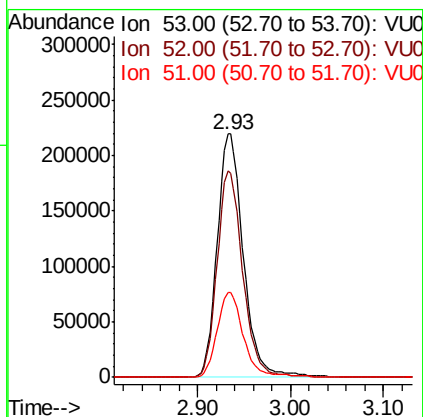
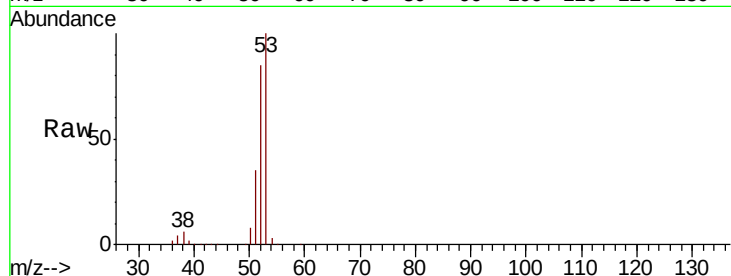
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	428909
Ion Ratio	Lower	Upper	
53	100		
52	83.4	66.2	99.2
51	35.4	27.0	40.4

Manual Integrations
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MMDadoda
11/14/2018 9:34:15 AM



#16

Acetone

Concen: 281.827 ug/l

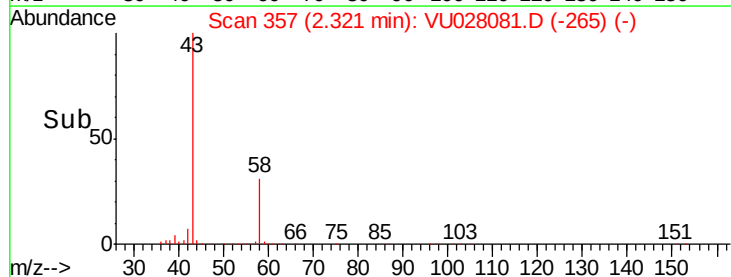
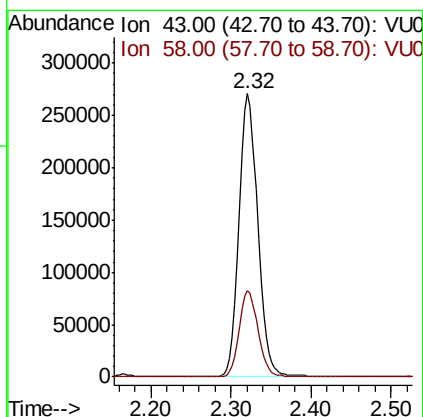
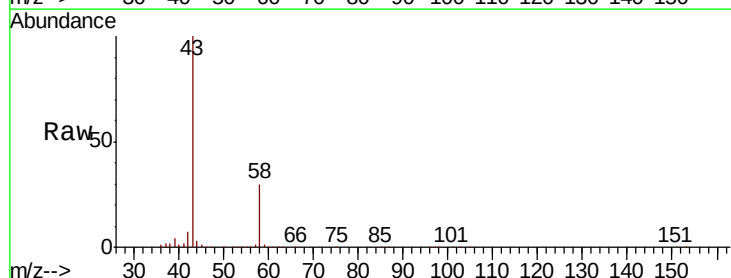
RT: 2.32 min Scan# 357

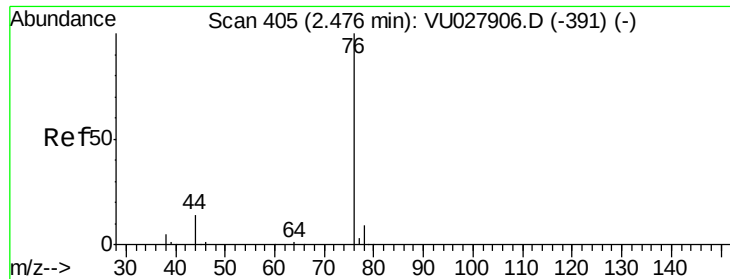
Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Tgt Ion:	43	Resp:	426882
Ion Ratio	Lower	Upper	
43	100		
58	30.4	24.6	37.0





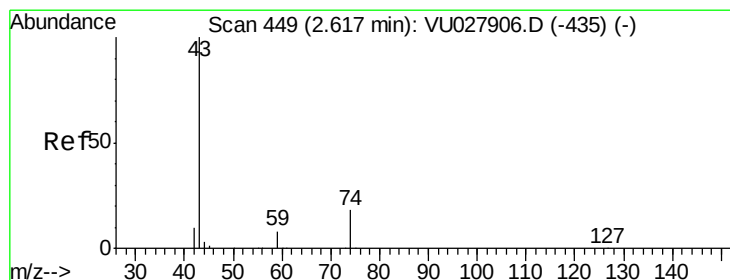
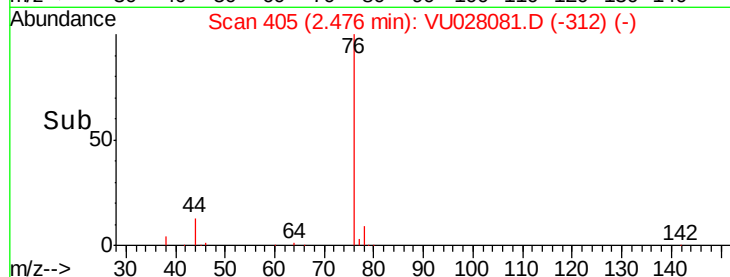
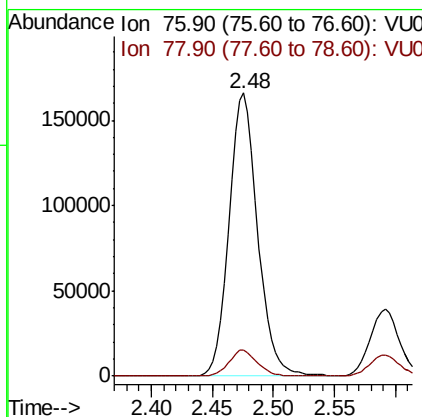
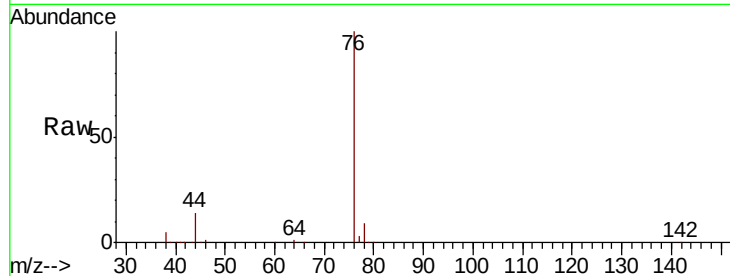
#17
Carbon Disulfide
Concen: 48.426 ug/l
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

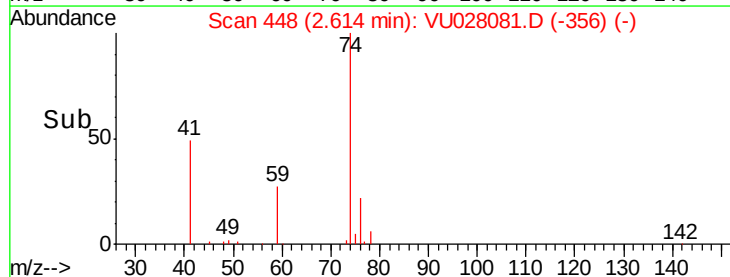
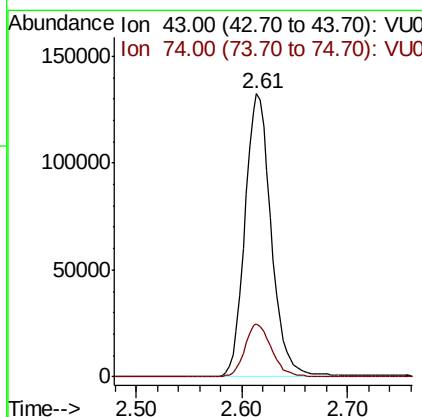
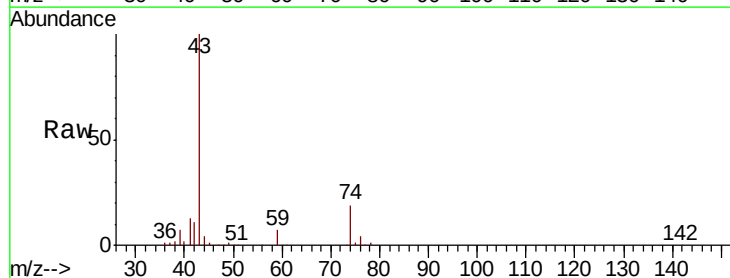
Manual Integrations
APPROVED

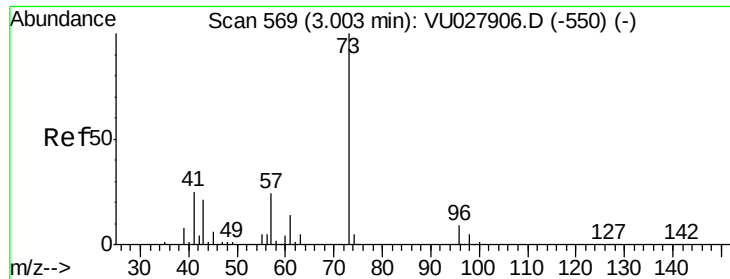
MMDadoda
11/14/2018 9:34:15 AM



#18
Methyl Acetate
Concen: 54.926 ug/l
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.2	14.9	22.3





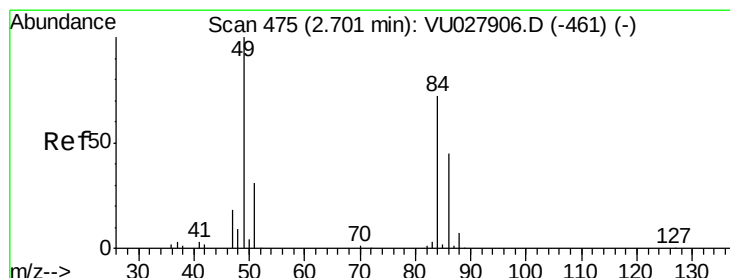
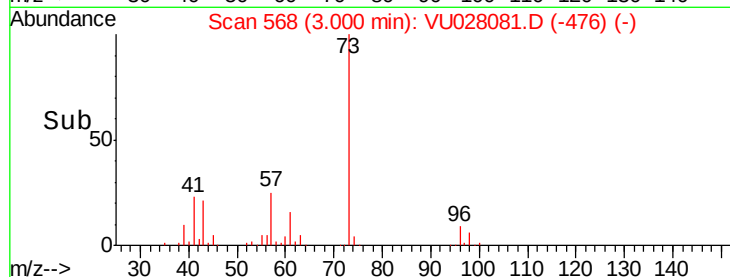
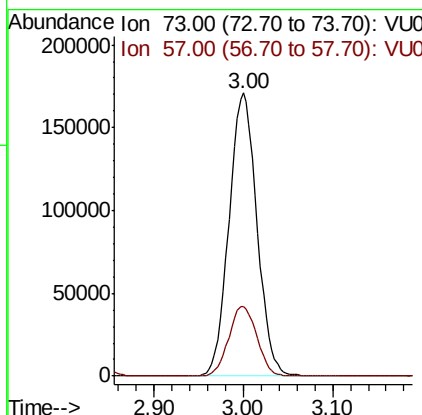
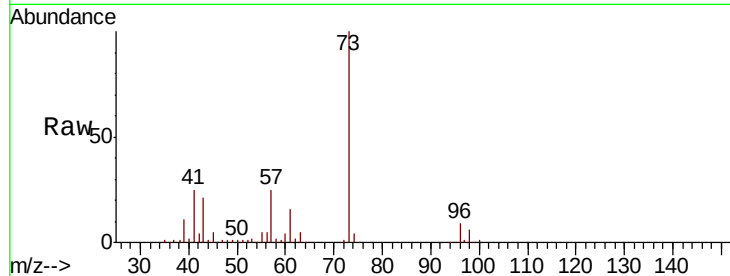
#19
Methyl tert-butyl Ether
Concen: 53.437 ug/l
RT: 3.00 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.7	19.3	28.9

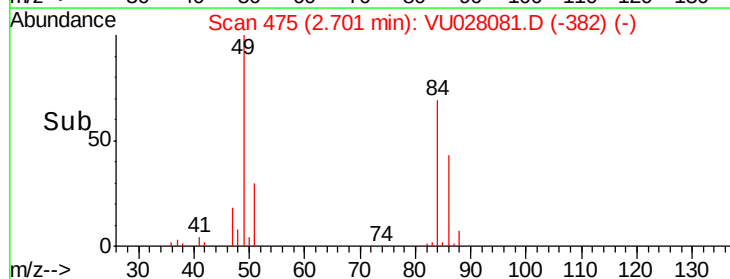
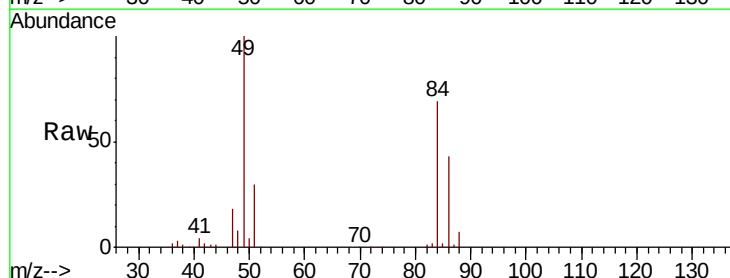
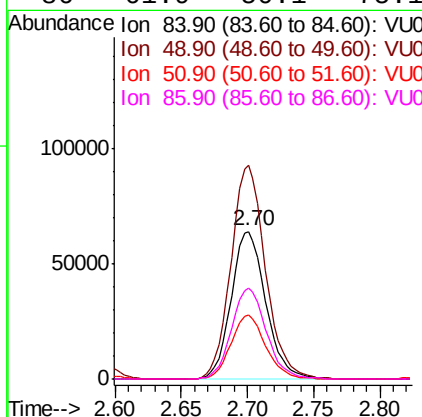
Manual Integrations
APPROVED

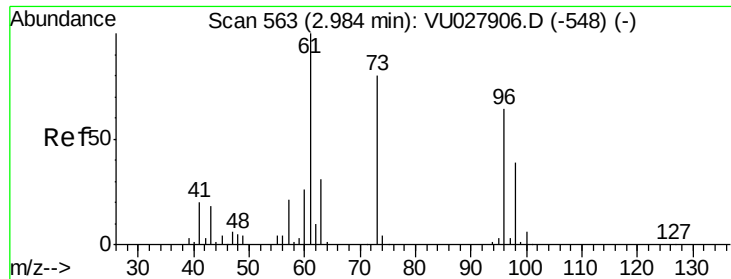
MMDadoda
11/14/2018 9:34:15 AM



#20
Methylene Chloride
Concen: 52.488 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.0	111.6	167.4
51	43.2	34.8	52.2
86	61.9	50.1	75.1





#21

trans-1,2-Dichloroethene

Concen: 49.841 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

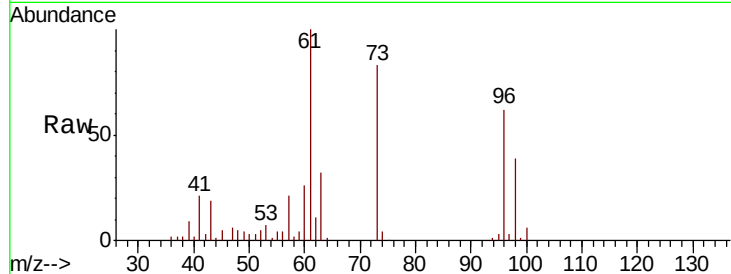
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	98987
Ion	Ratio	Lower	Upper
96	100		
61	160.3	125.0	187.6
98	62.7	48.2	72.4

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:15 AM

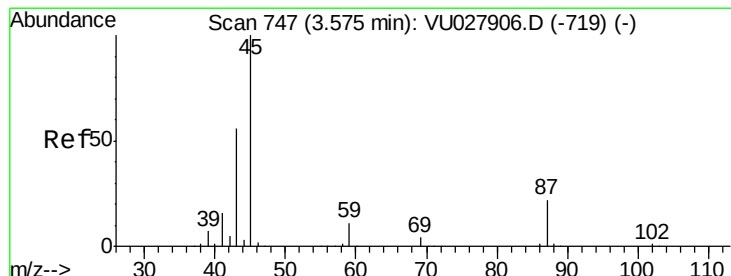
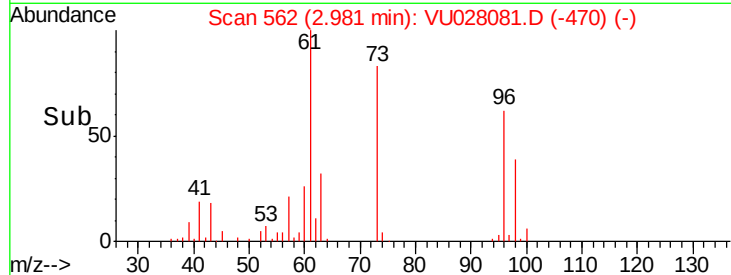
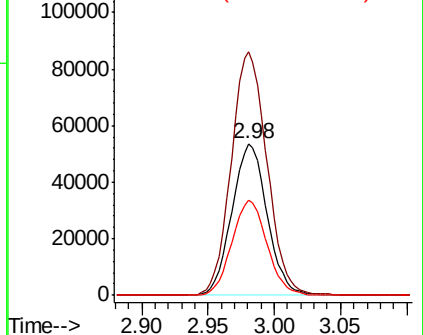


Abundance

Ion 95.90 (95.60 to 96.60): VU027906.D (-548) (-)

Ion 60.90 (60.60 to 61.60): VU027906.D (-548) (-)

Ion 97.90 (97.60 to 98.60): VU027906.D (-548) (-)



#22

Diisopropyl ether

Concen: 53.570 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Tgt Ion:	45	Resp:	465182
Ion	Ratio	Lower	Upper
45	100		
43	55.4	45.0	67.6
87	21.5	17.9	26.9
59	10.4	8.6	12.8

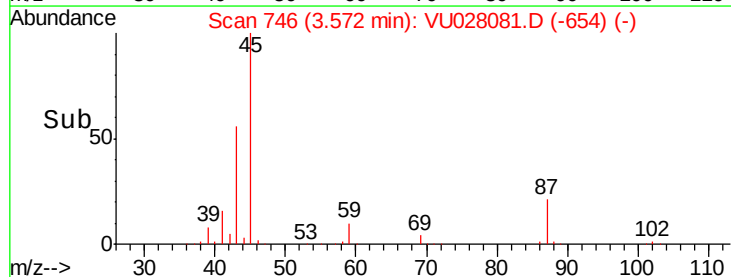
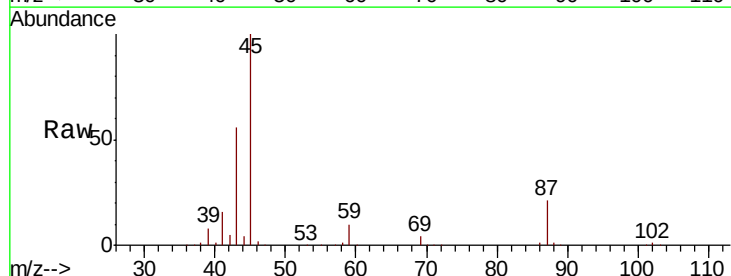
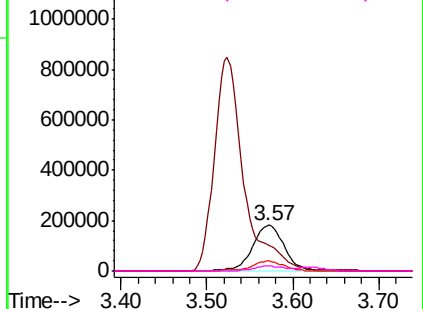
Abundance

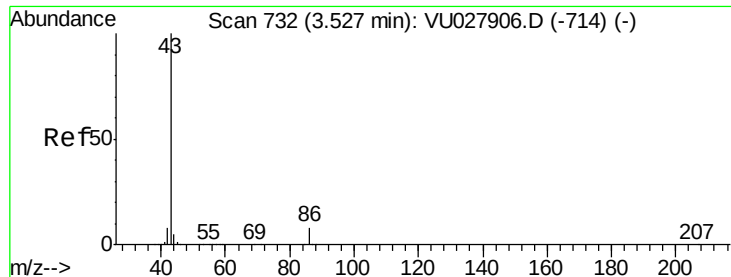
Ion 45.00 (44.70 to 45.70): VU027906.D (-719) (-)

Ion 43.00 (42.70 to 43.70): VU027906.D (-719) (-)

Ion 87.00 (86.70 to 87.70): VU027906.D (-719) (-)

Ion 59.00 (58.70 to 59.70): VU027906.D (-719) (-)





#23

Vinyl Acetate

Concen: 272.042 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2030247

Ion Ratio Lower Upper

43 100

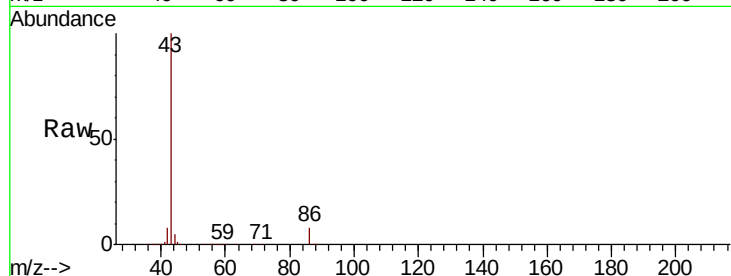
86 8.0 6.6 9.8

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:15 AM

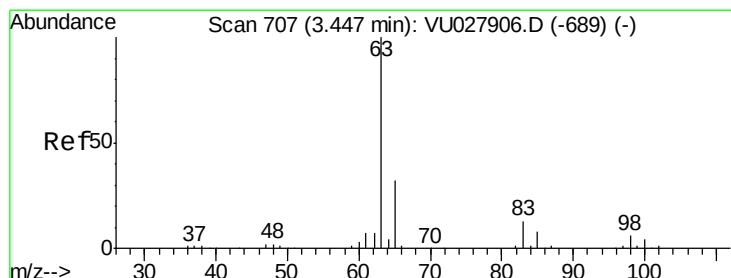
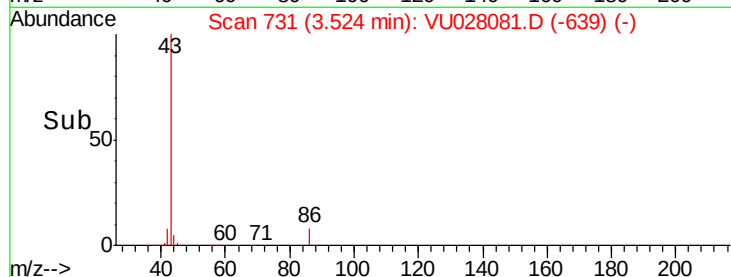


Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-714) (-)

Ion 86.00 (85.70 to 86.70): VU027906.D (-714) (-)

3.52

Time-->



#24

1,1-Dichloroethane

Concen: 52.596 ug/l

RT: 3.44 min Scan# 706

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

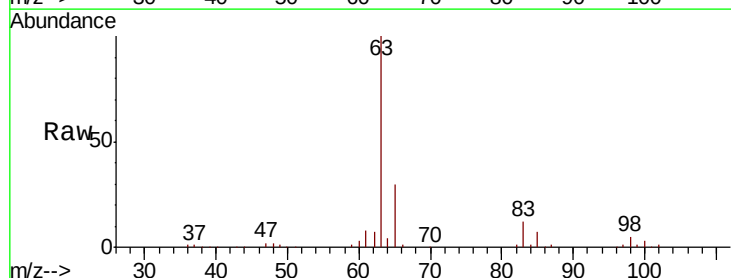
Tgt Ion: 63 Resp: 227494

Ion Ratio Lower Upper

63 100

98 5.3 2.9 8.6

100 3.2 2.0 6.0



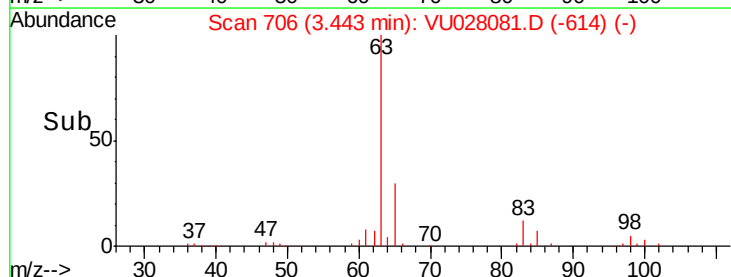
Abundance Ion 62.90 (62.60 to 63.60): VU027906.D (-689) (-)

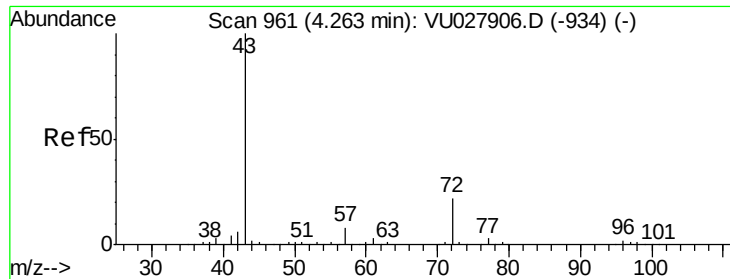
Ion 97.90 (97.60 to 98.60): VU027906.D (-689) (-)

Ion 99.90 (99.60 to 100.60): VU027906.D (-689) (-)

3.44

Time-->





#25

2-Butanone

Concen: 275.249 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 663277

Ion Ratio Lower Upper

43 100

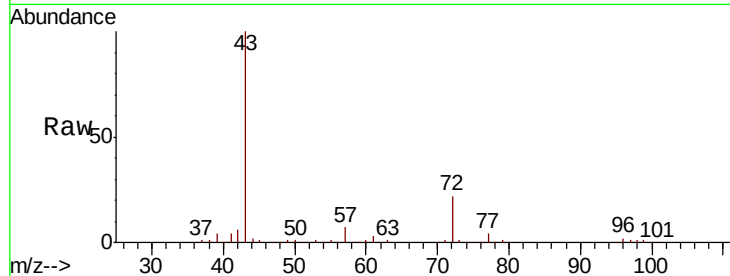
72 22.2 17.7 26.5

Manual Integrations

APPROVED

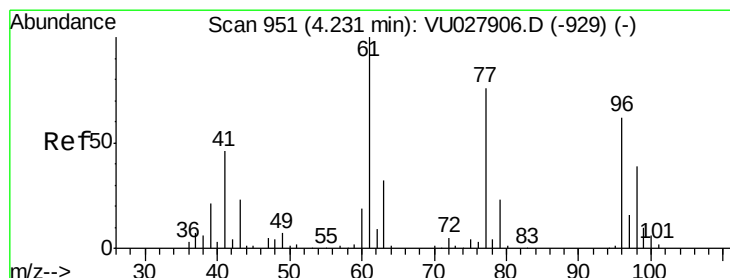
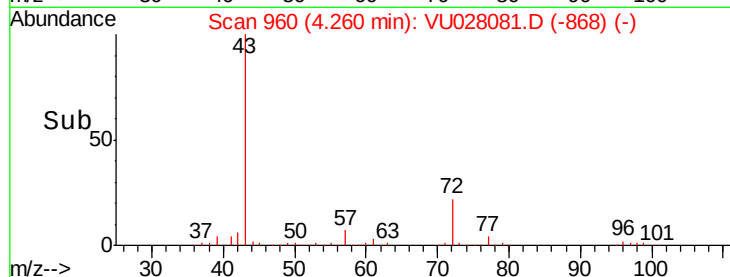
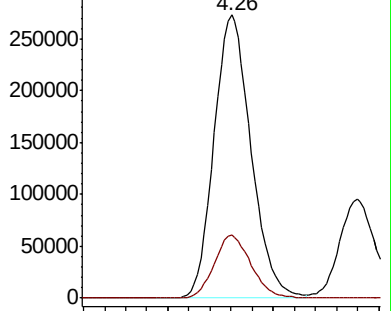
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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 55.106 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.01 min

Lab File: VU028081.D

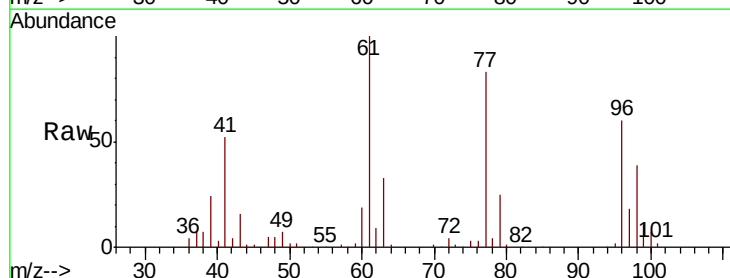
Acq: 13 Nov 2018 10:37

Tgt Ion: 77 Resp: 178871

Ion Ratio Lower Upper

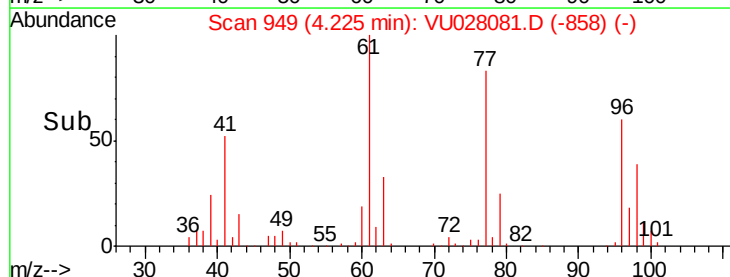
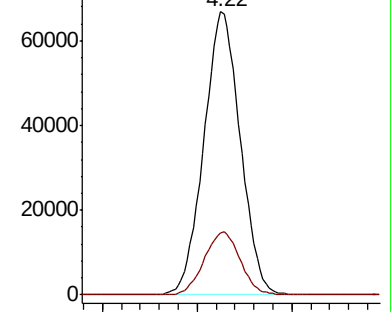
77 100

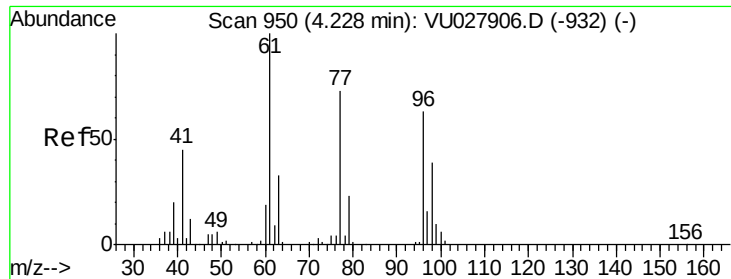
97 22.0 11.2 33.5



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

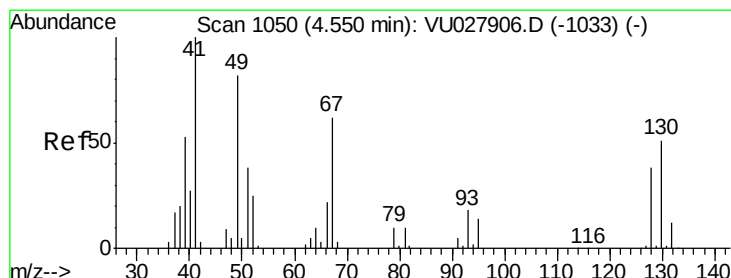
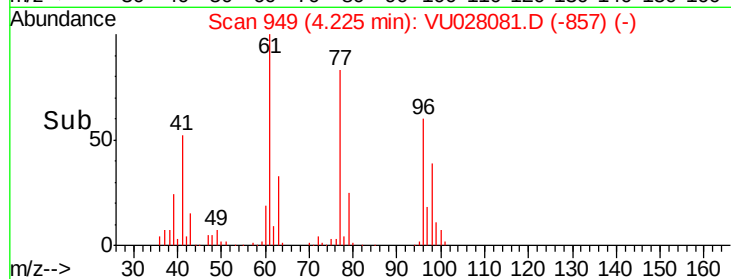
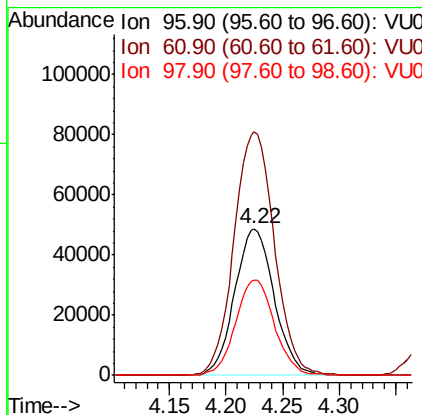
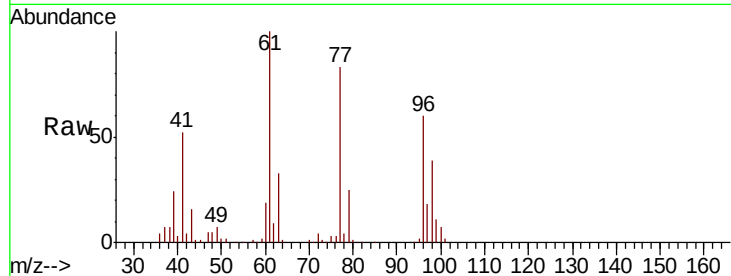
cis-1,2-Dichloroethene
Concen: 53.133 ug/l
RT: 4.22 min Scan# 949
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	169.9	0.0	329.6
98	64.0	0.0	127.2

Manual Integrations
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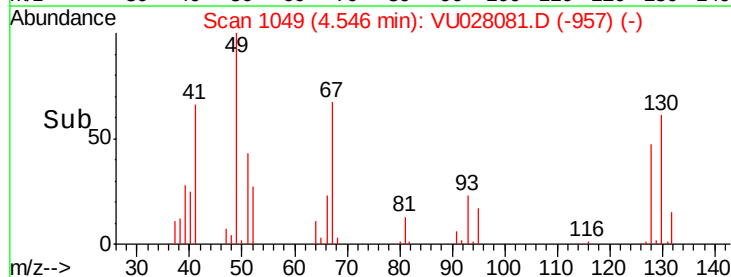
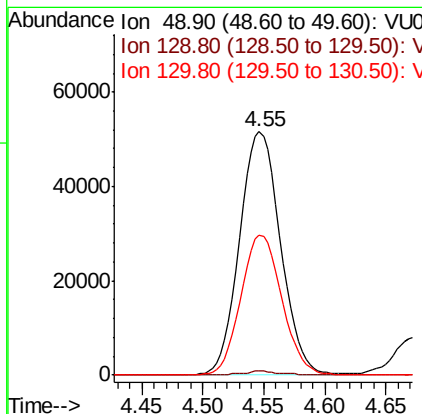
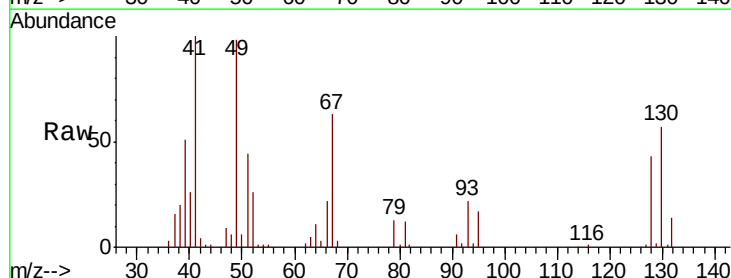
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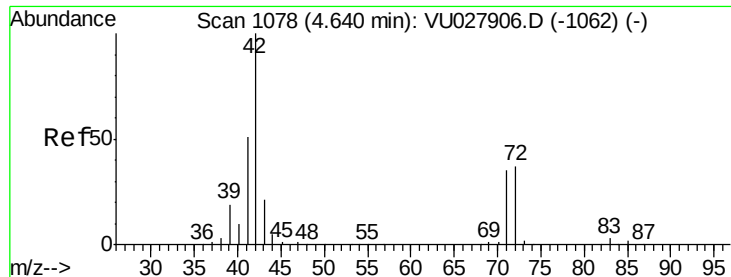


#28

Bromochloromethane
Concen: 59.067 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.0
130	57.7	47.8	71.6





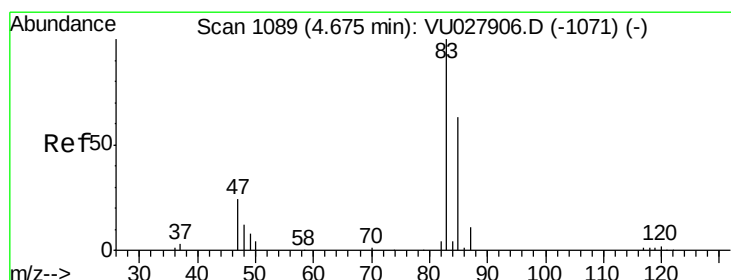
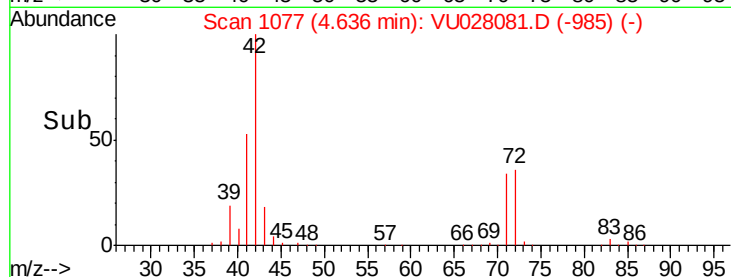
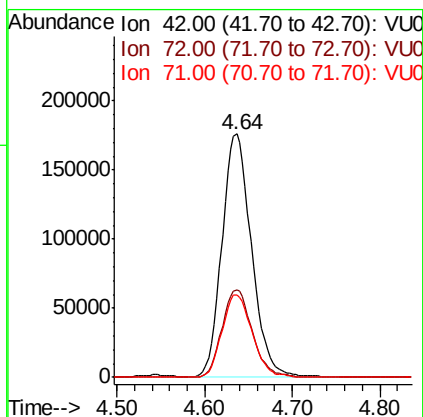
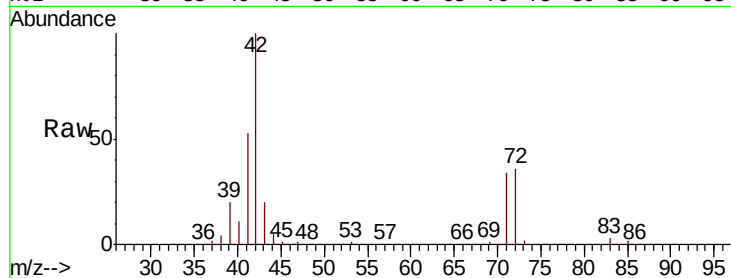
#29
Tetrahydrofuran
Concen: 255.828 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.9	29.4	44.0
71	34.8	27.9	41.9

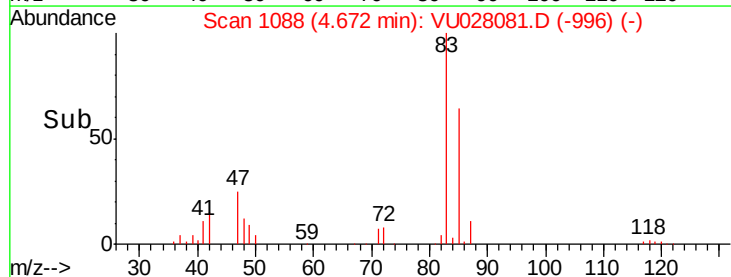
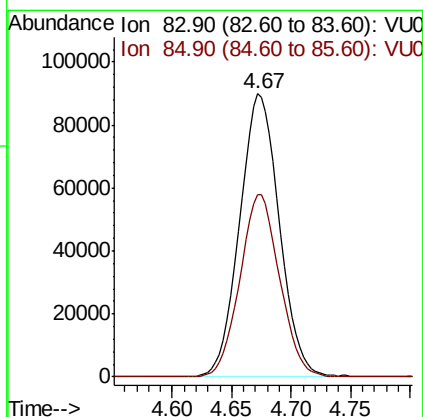
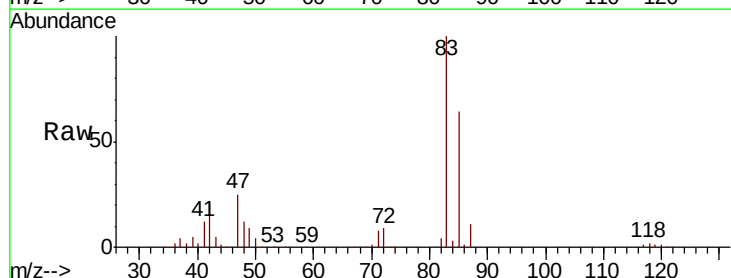
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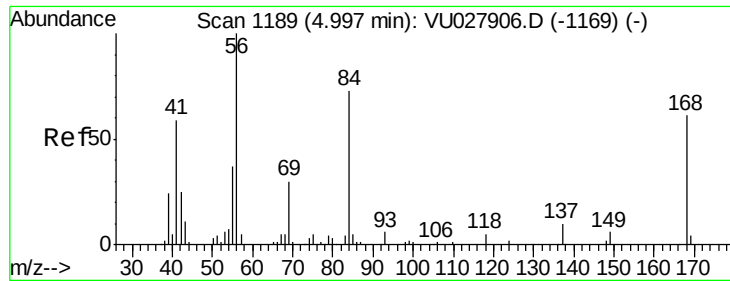
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#30
Chloroform
Concen: 52.364 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.6	76.0





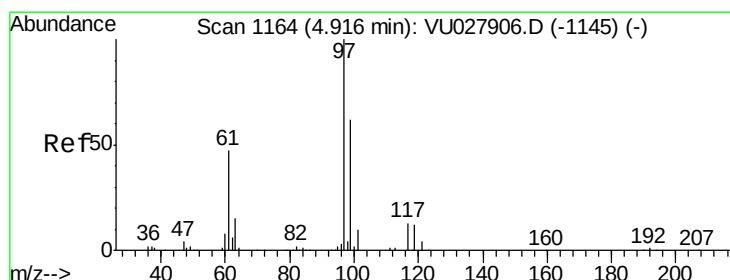
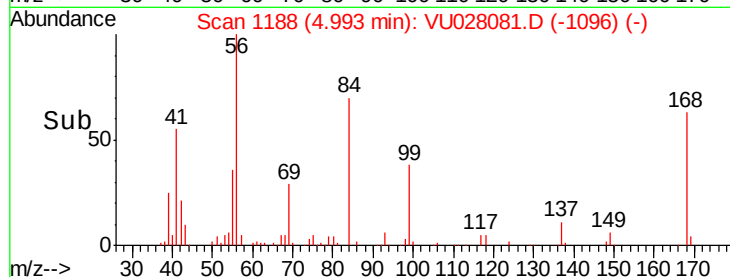
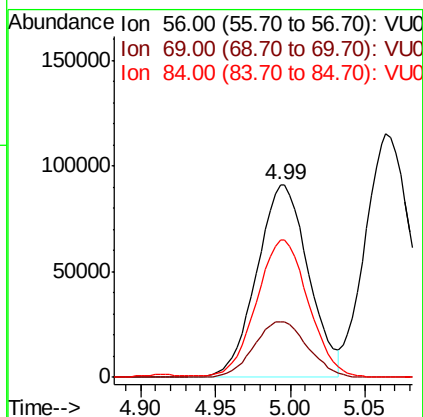
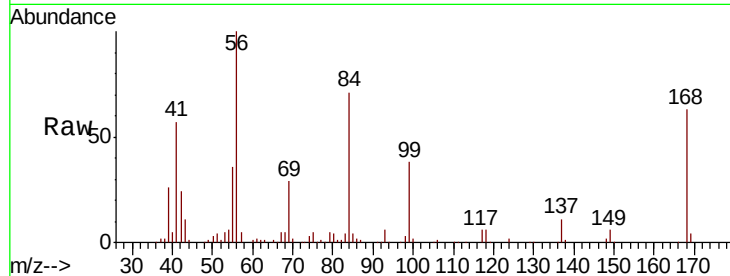
#31
Cyclohexane
Concen: 51.595 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.7	35.5
84	70.4	58.2	87.4

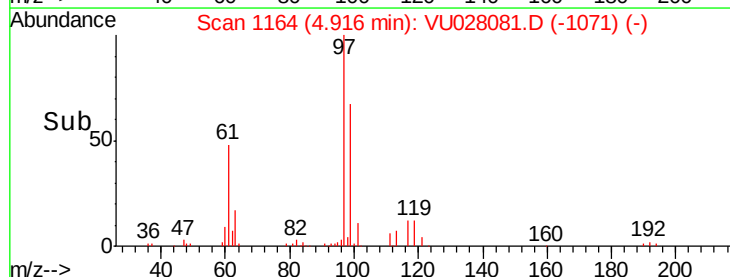
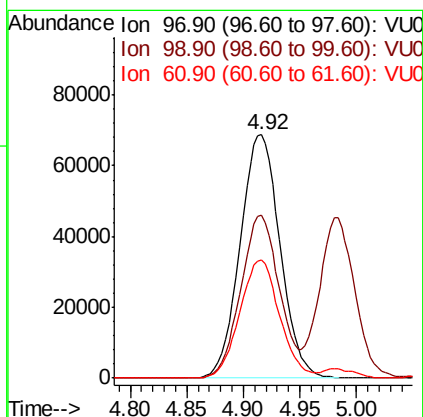
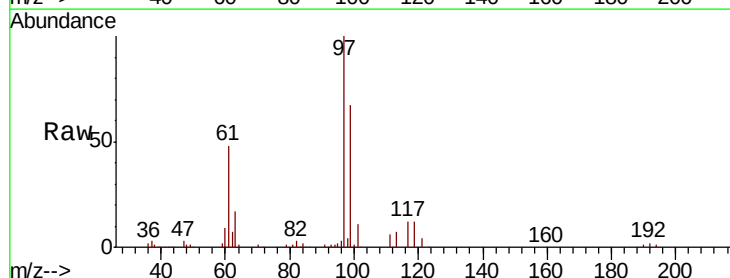
Manual Integrations
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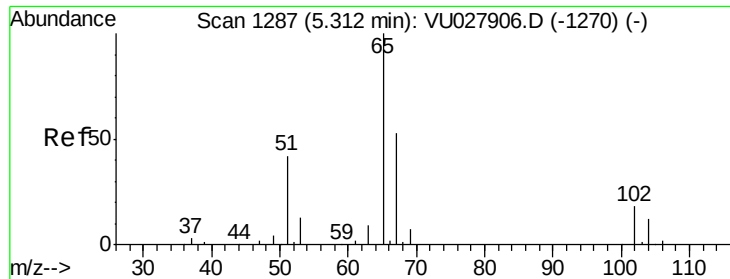
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11/14/2018 9:34:15 AM



#32
1,1,1-Trichloroethane
Concen: 53.394 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	50.5	75.7
61	48.8	38.3	57.5





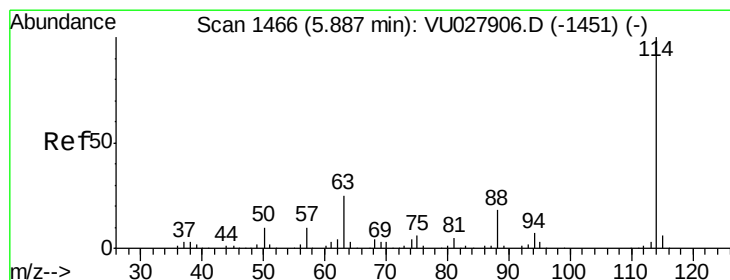
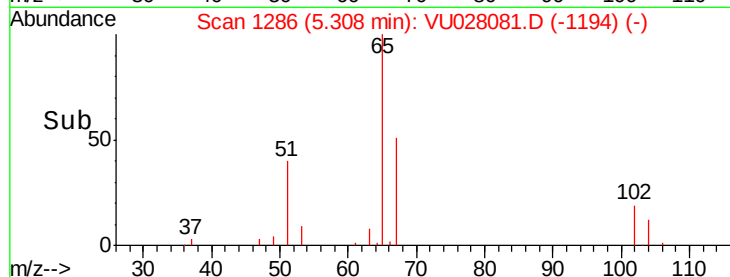
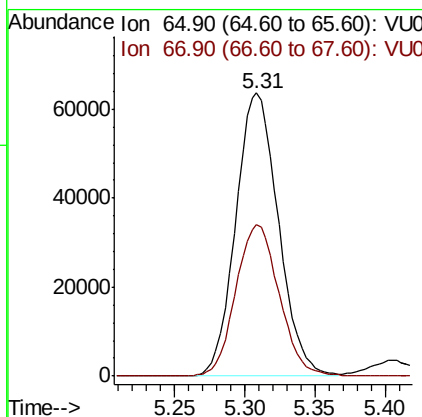
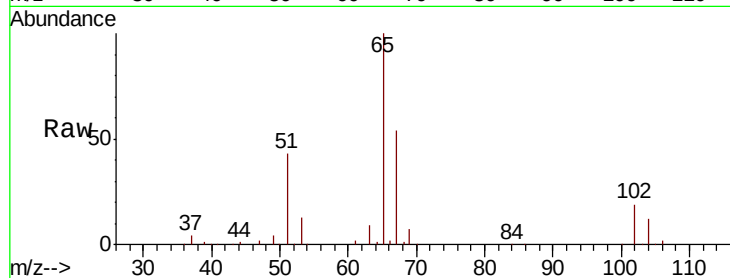
#33
 1,2-Dichloroethane-d4
 Concen: 55.143 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	109.0

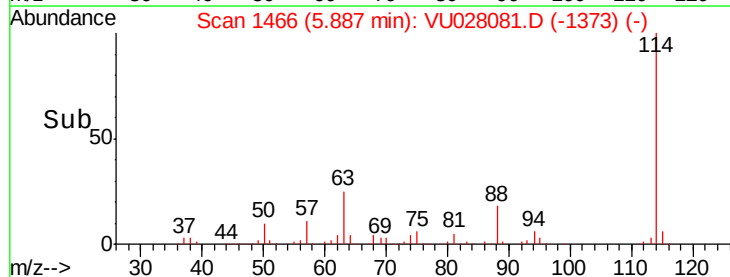
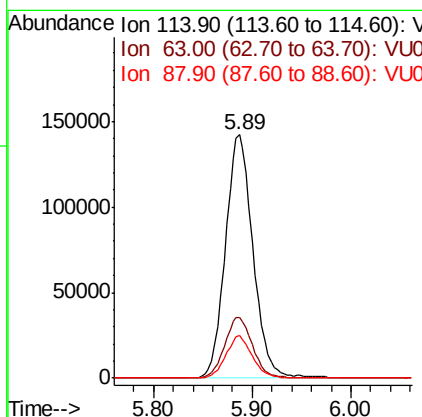
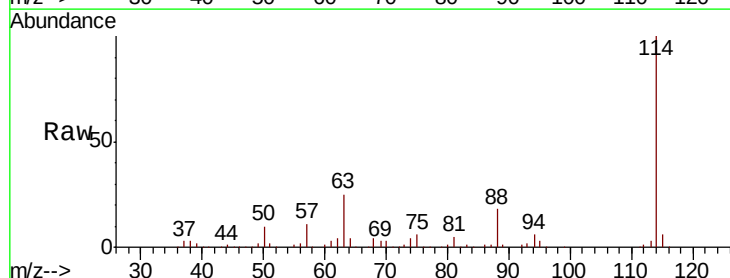
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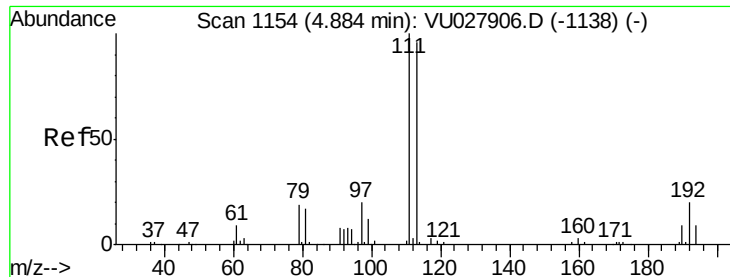
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.9	0.0	50.8
88	17.6	0.0	35.8





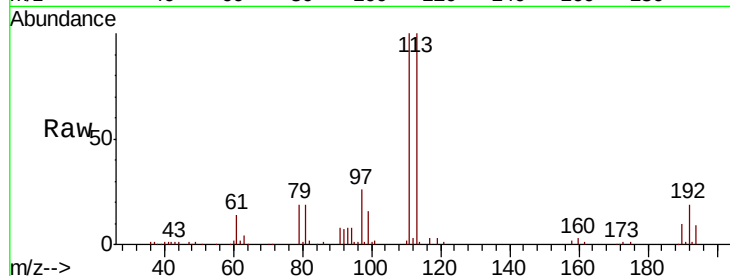
#35
 Dibromofluoromethane
 Concen: 56.662 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.1	83.0	124.6
192	18.6	15.6	23.4

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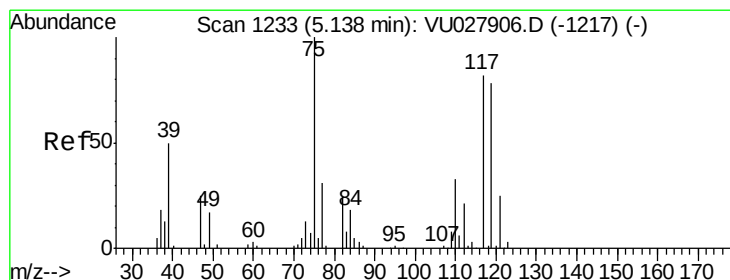
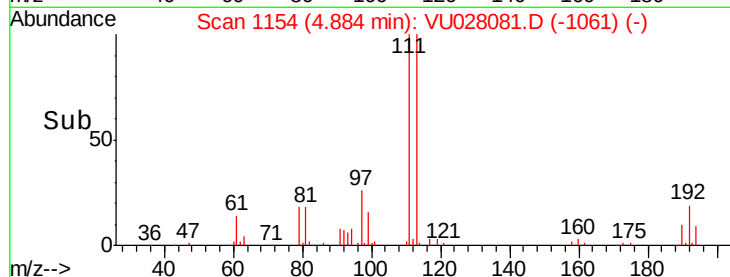
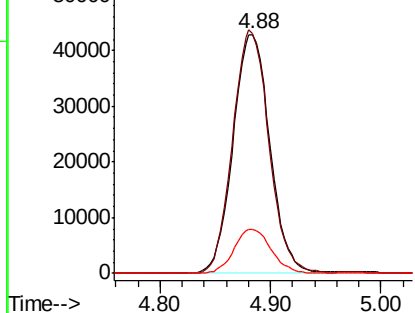


Abundance

Ion 112.80 (112.50 to 113.50): V

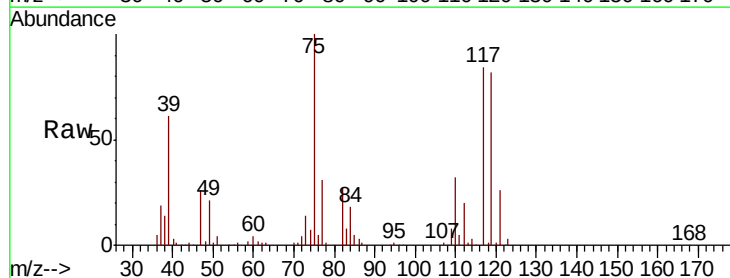
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 53.612 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.3	16.5	49.5
77	31.3	24.9	37.3

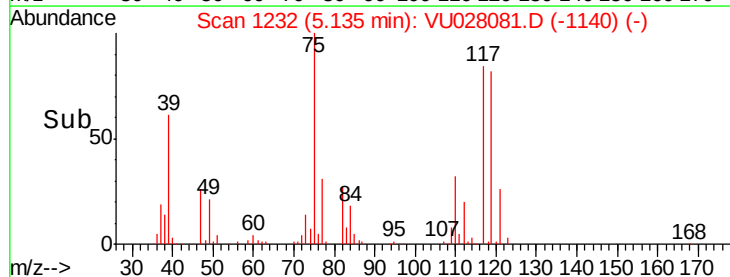
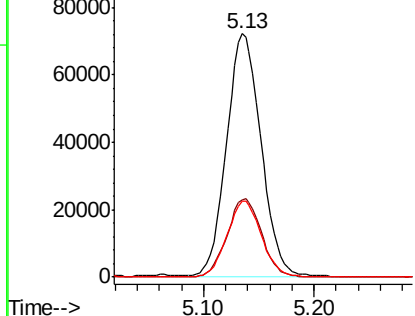


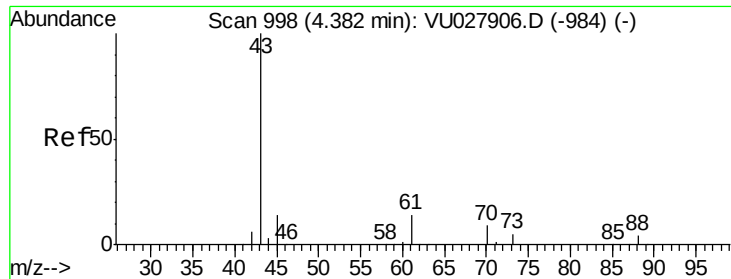
Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





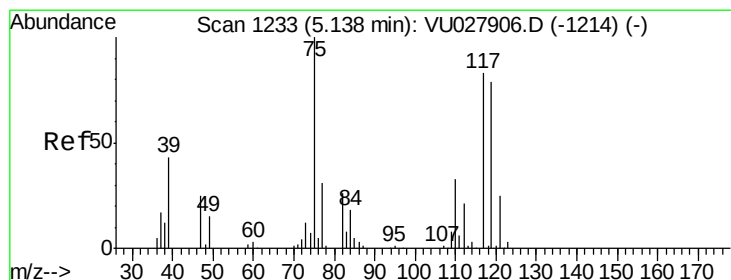
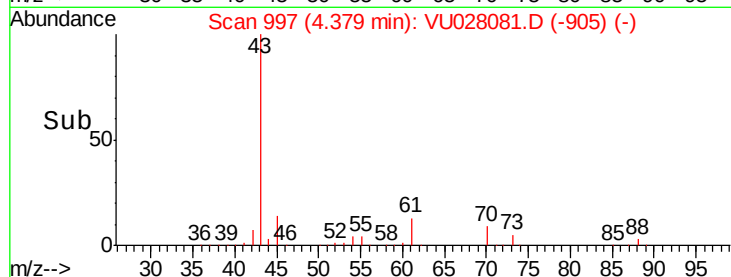
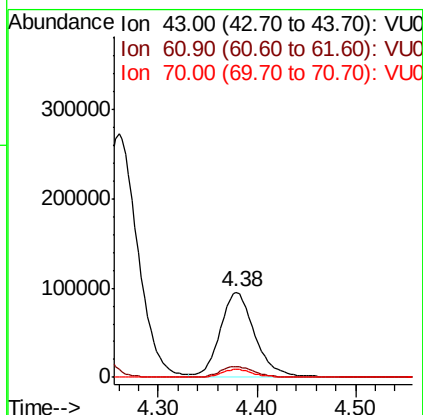
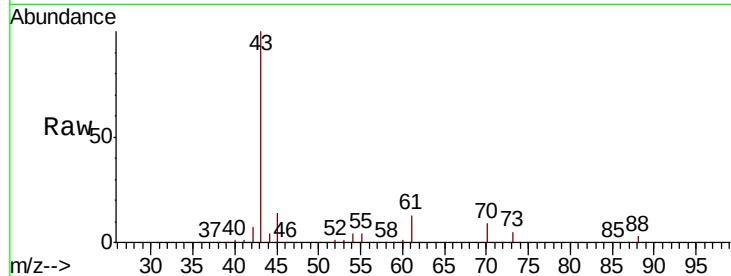
#37
Ethyl Acetate
Concen: 53.854 ug/l
RT: 4.38 min Scan# 997
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.1	10.3	15.5
70	9.0	7.0	10.6

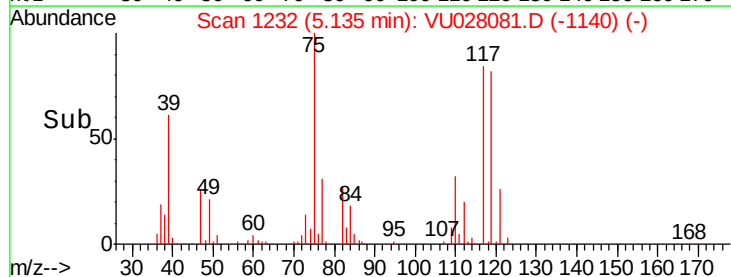
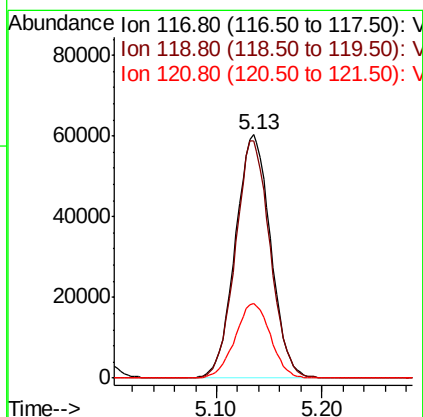
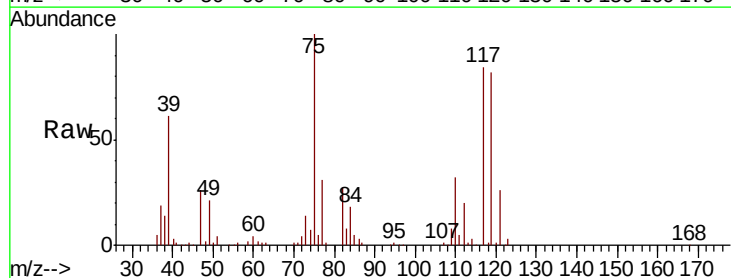
Manual Integrations
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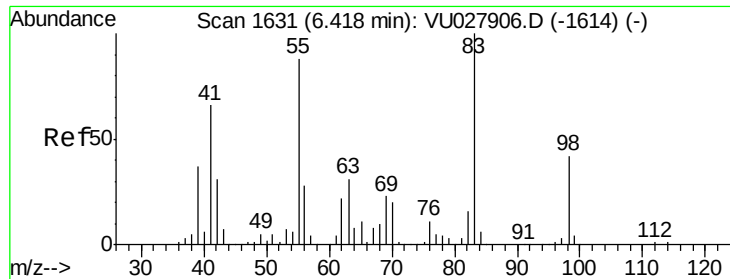
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11/14/2018 9:34:15 AM



#38
Carbon Tetrachloride
Concen: 54.270 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.0	114.0
121	30.6	24.5	36.7





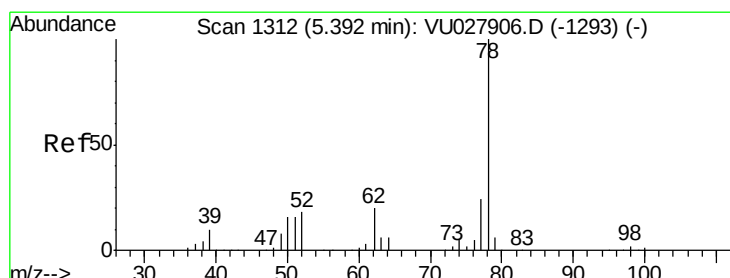
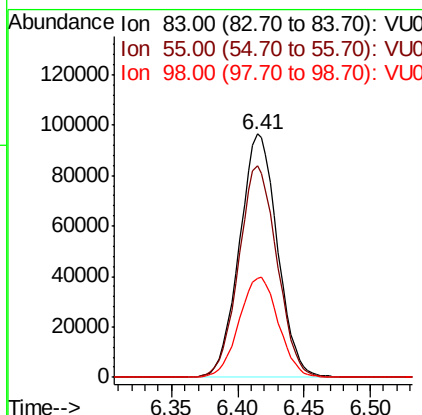
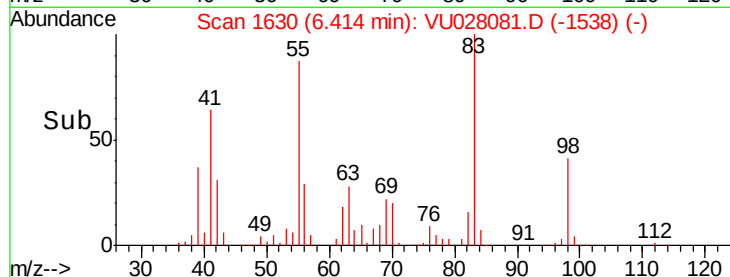
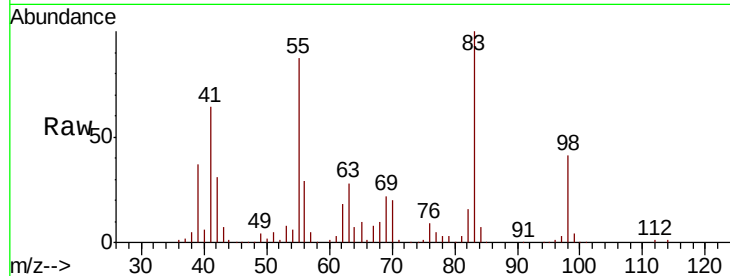
#39
Methylvlcyclohexane
Concen: 54.628 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.7	70.3	105.5
98	40.8	34.0	51.0

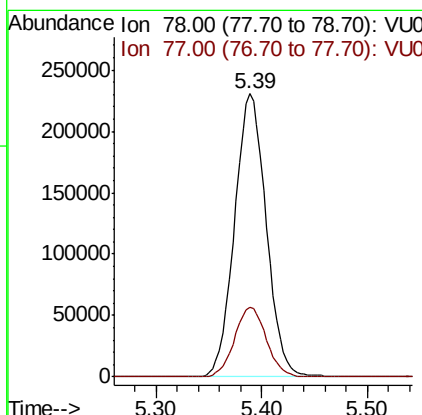
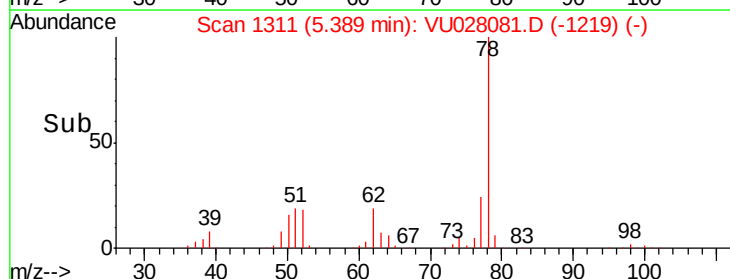
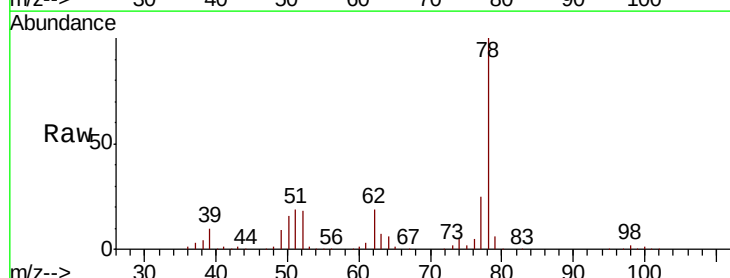
Manual Integrations
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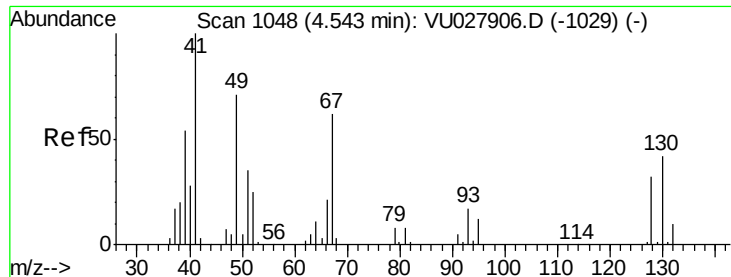
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#40
Benzene
Concen: 53.875 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.3	28.9





#41

Methacrylonitrile

Concen: 57.126 ug/l

RT: 4.54 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

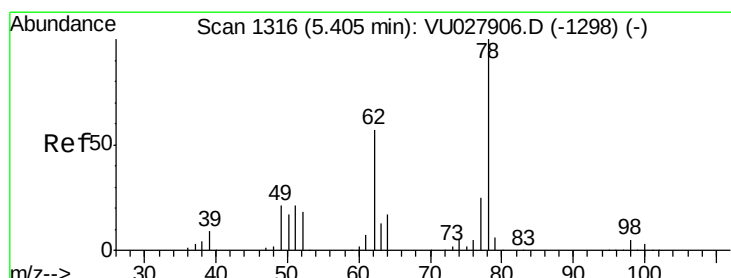
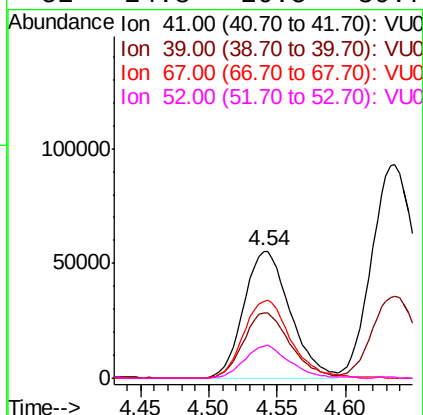
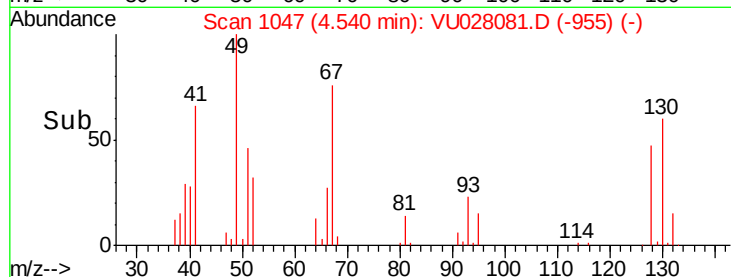
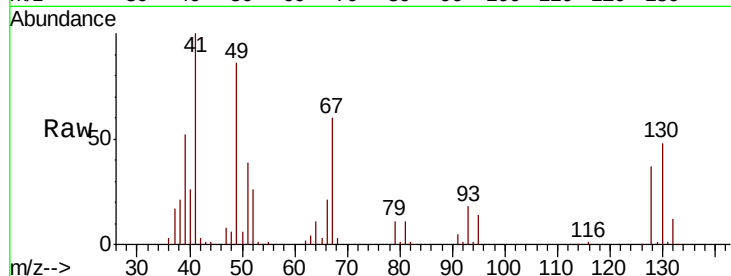
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		130106		
39	52.4	42.2	63.4		
67	62.5	49.5	74.3		
52	24.8	20.5	30.7		

Manual Integrations
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11/14/2018 9:34:15 AM



#42

1,2-Dichloroethane

Concen: 54.005 ug/l

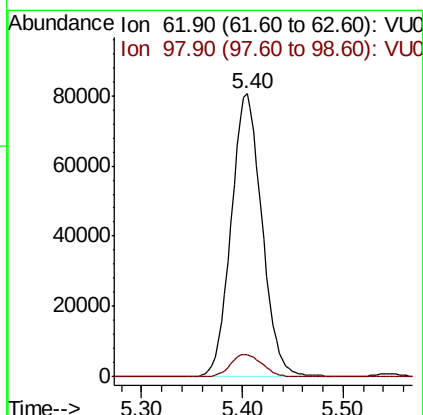
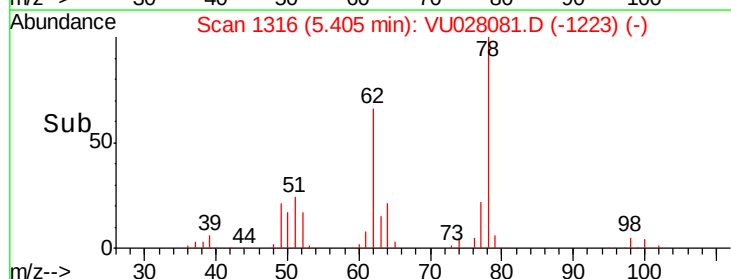
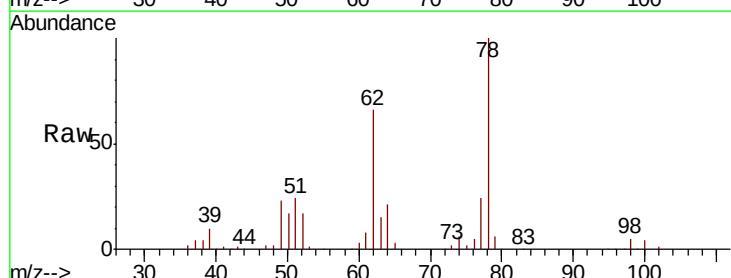
RT: 5.40 min Scan# 1316

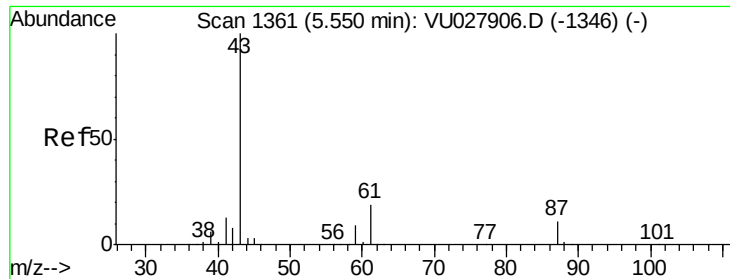
Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		170943		
98	8.1	0.0	17.2		





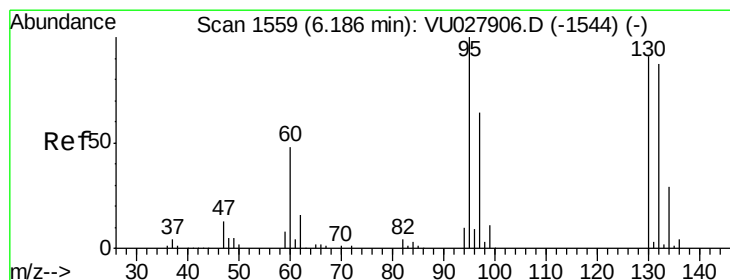
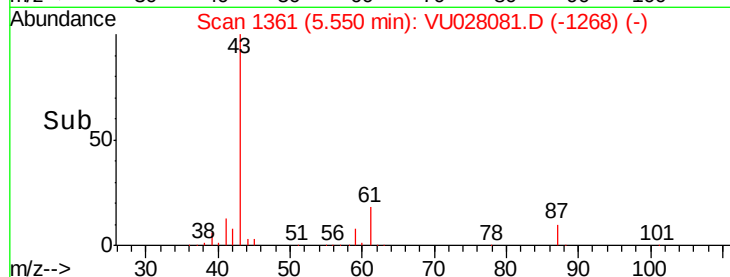
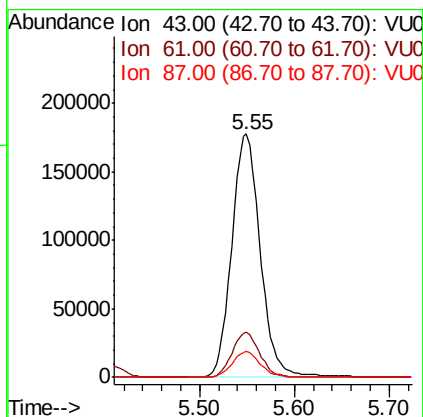
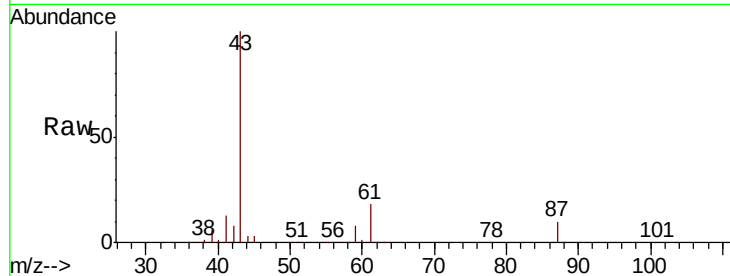
#43
Isopropyl Acetate
Concen: 55.309 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.1	15.0	22.4
87	10.4	8.6	12.8

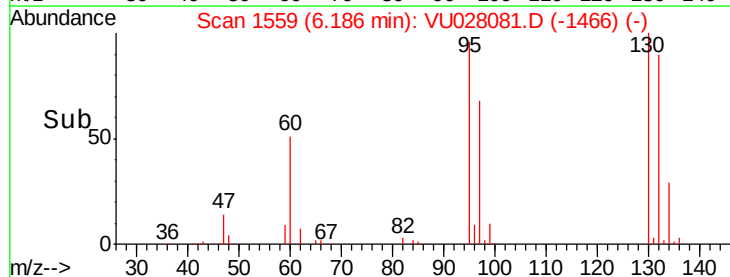
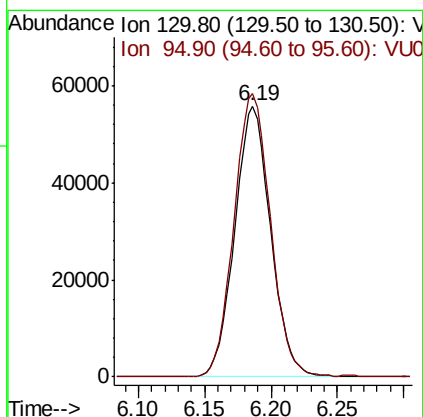
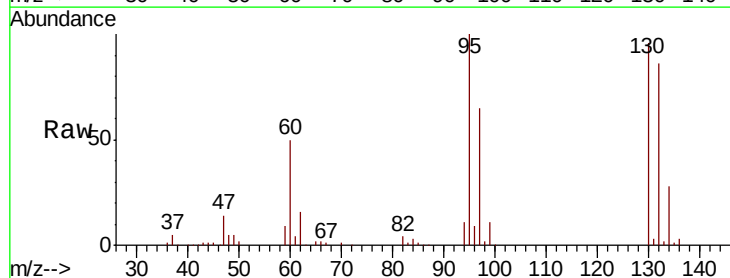
Manual Integrations
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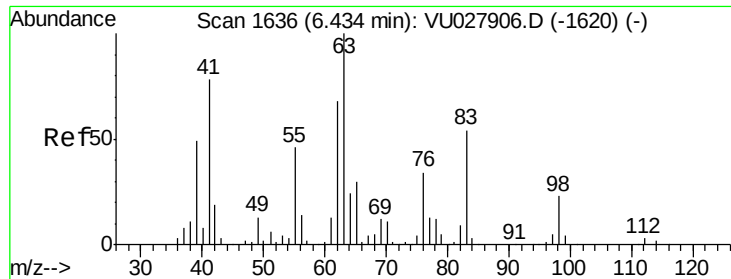
MMDadoda
11/14/2018 9:34:15 AM



#44
Trichloroethene
Concen: 54.959 ug/l
RT: 6.19 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.6	0.0	219.2





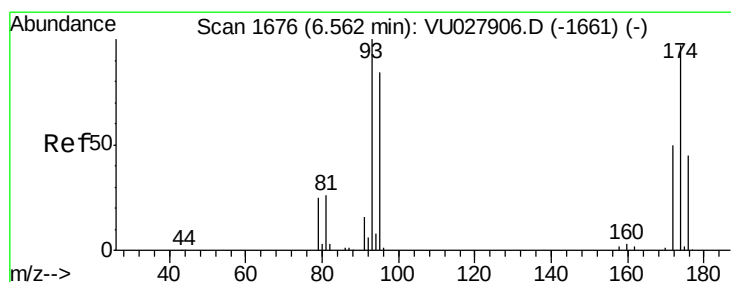
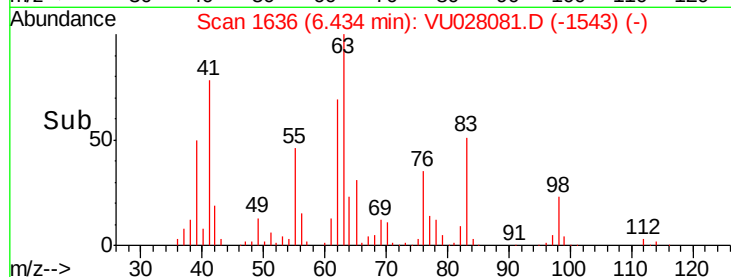
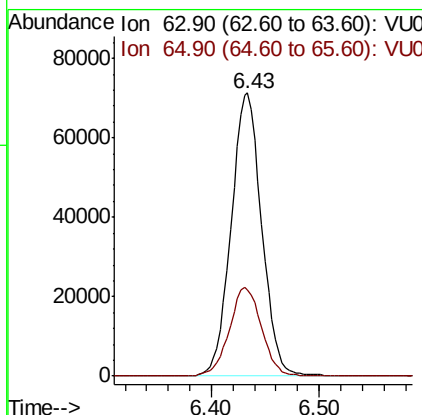
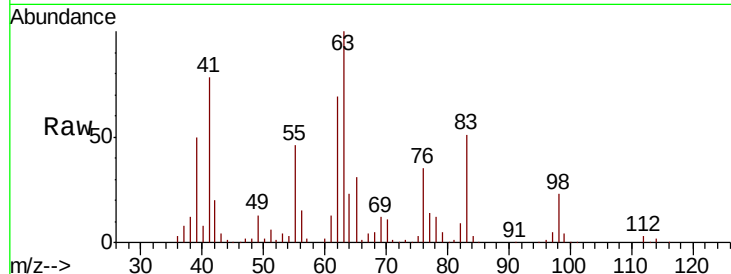
#45
 1,2-Dichloropropane
 Concen: 54.783 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 140692
 Ion Ratio Lower Upper
 63 100
 65 30.7 24.4 36.6

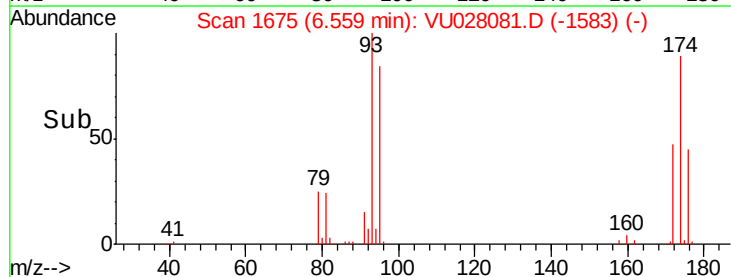
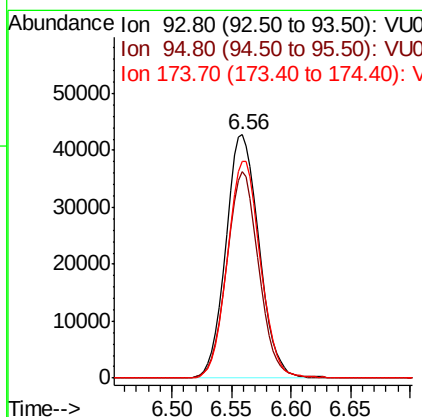
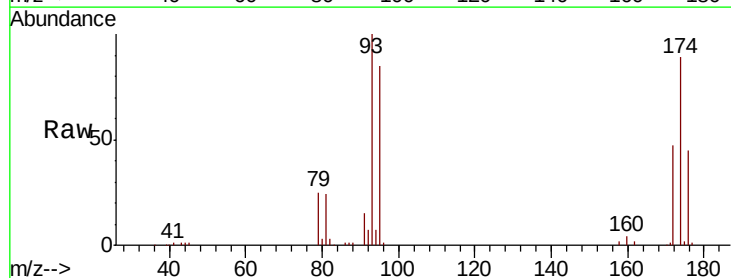
Manual Integrations
 APPROVED

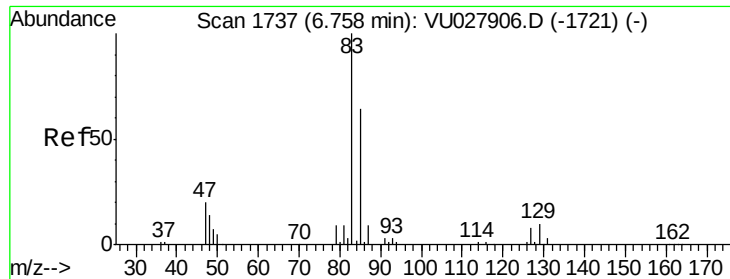
MMDadoda
 11/14/2018 9:34:15 AM



#46
 Dibromomethane
 Concen: 56.141 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. -0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Tgt Ion: 93 Resp: 82875
 Ion Ratio Lower Upper
 93 100
 95 81.5 68.5 102.7
 174 88.6 76.1 114.1





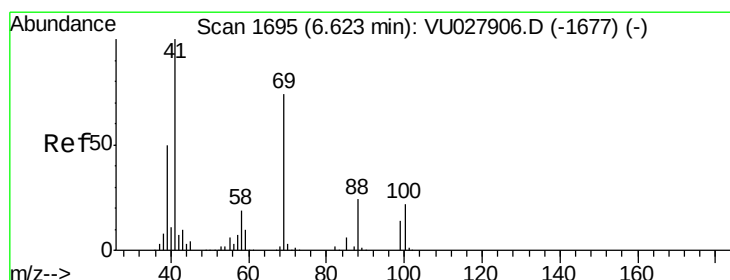
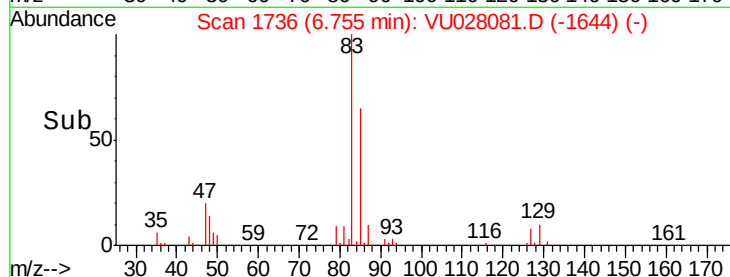
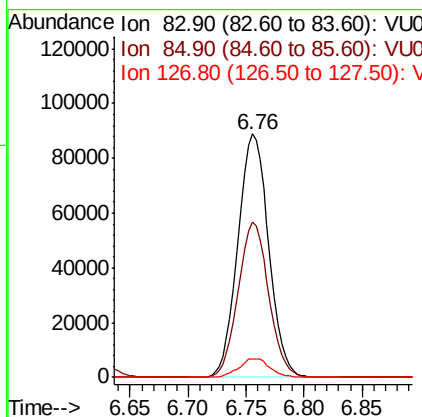
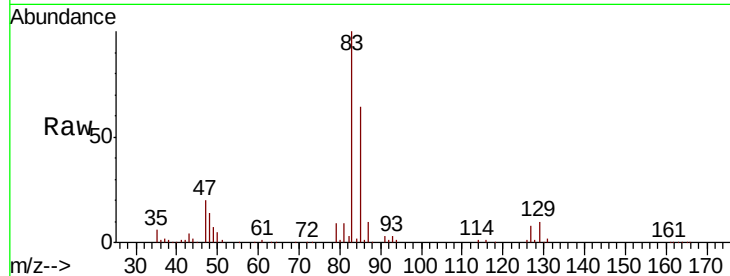
#47
Bromodichloromethane
Concen: 57.603 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	163869		
85	63.9	51.0	76.6	
127	7.8	6.2	9.4	

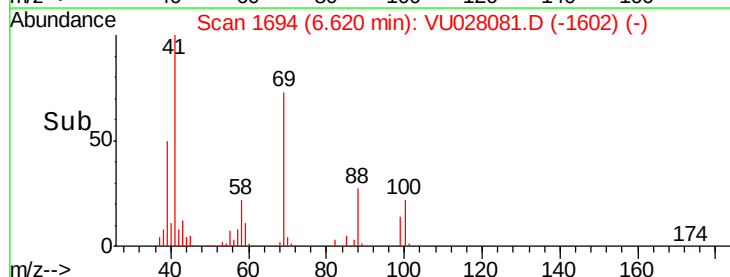
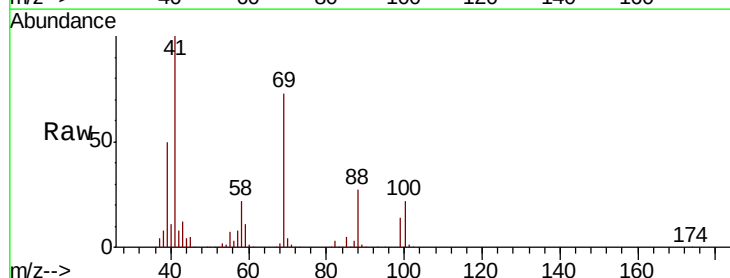
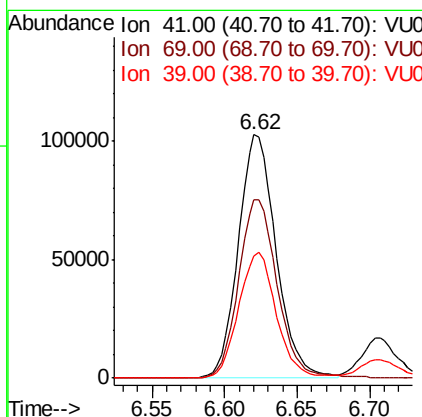
Manual Integrations
APPROVED

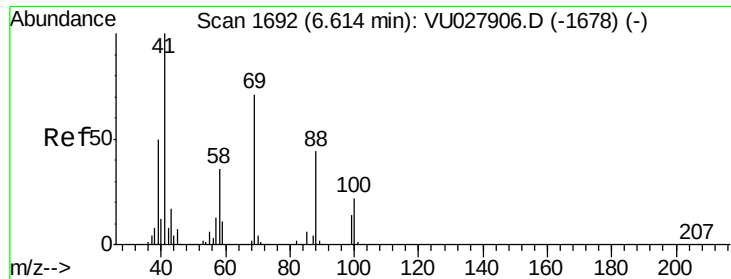
MMDadoda
11/14/2018 9:34:15 AM



#48
Methyl methacrylate
Concen: 56.649 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	185612		
69	75.5	59.8	89.8	
39	51.5	40.0	60.0	





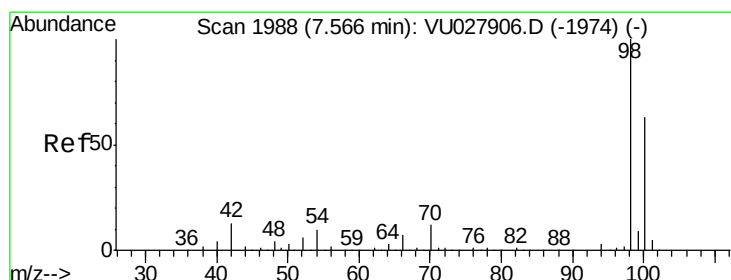
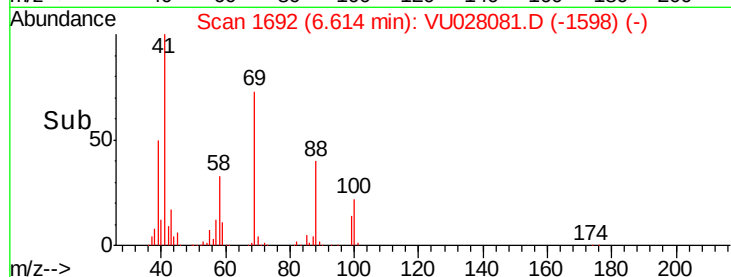
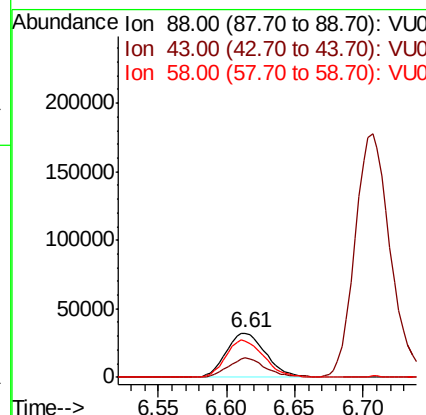
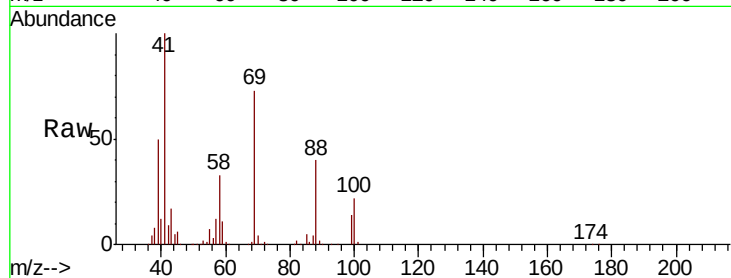
#49
1,4-Dioxane
Concen: 1212.093 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.2	30.5	45.7
58	82.5	67.1	100.7

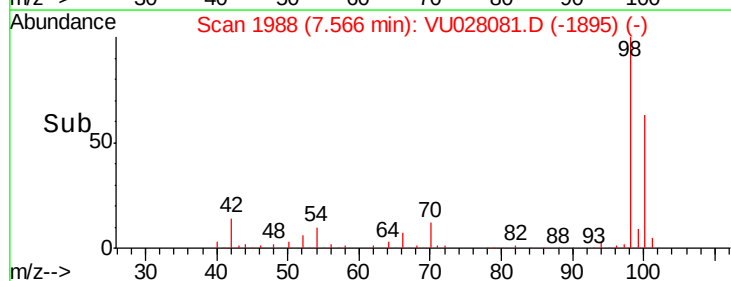
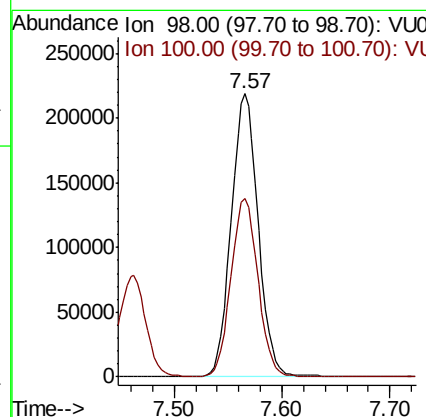
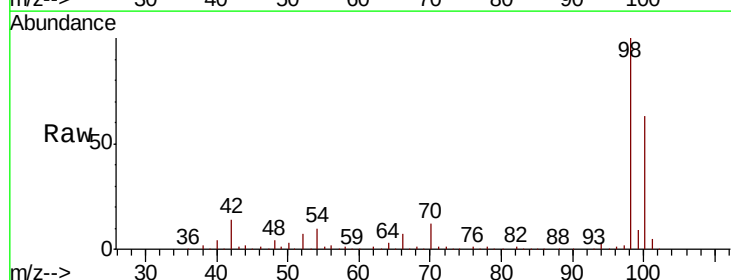
Manual Integrations
APPROVED

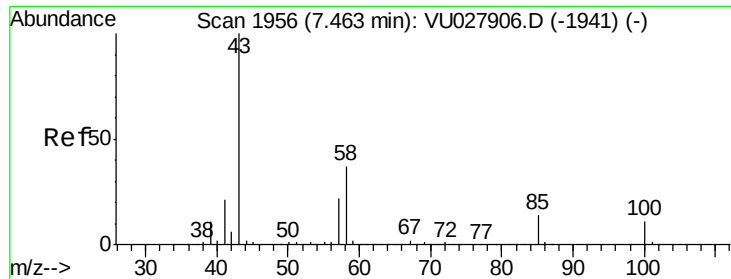
MMDadoda
11/14/2018 9:34:15 AM



#50
Toluene-d8
Concen: 56.280 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.0	50.1	75.1





#51

4-Methyl-2-Pentanone

Concen: 275.742 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1231253

Ion Ratio Lower Upper

43 100

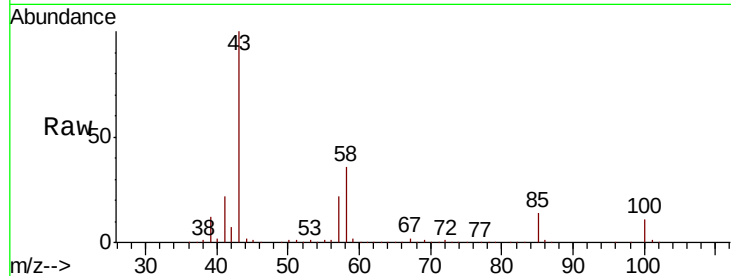
58 36.4 29.5 44.3

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-1941) (-)

7.46

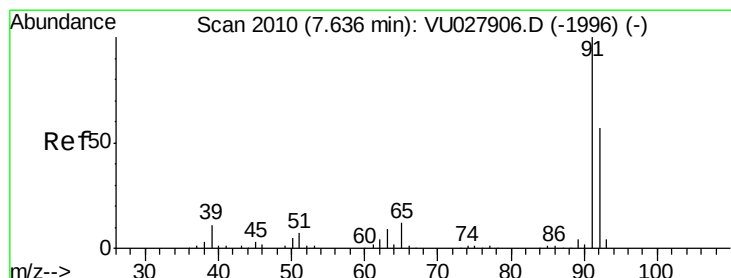
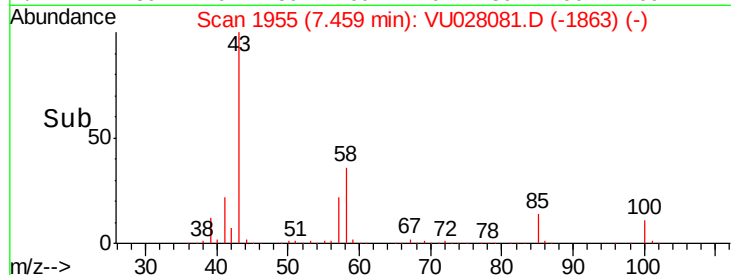
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 53.866 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028081.D

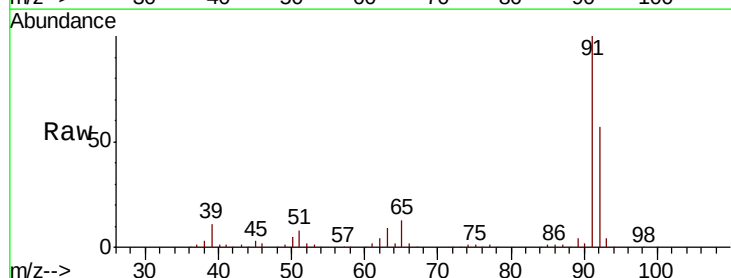
Acq: 13 Nov 2018 10:37

Tgt Ion: 92 Resp: 282001

Ion Ratio Lower Upper

92 100

91 177.0 141.2 211.8



Abundance Ion 92.00 (91.70 to 92.70): VU027906.D (-1996) (-)

Ion 91.00 (90.70 to 91.70): VU027906.D (-1996) (-)

7.64

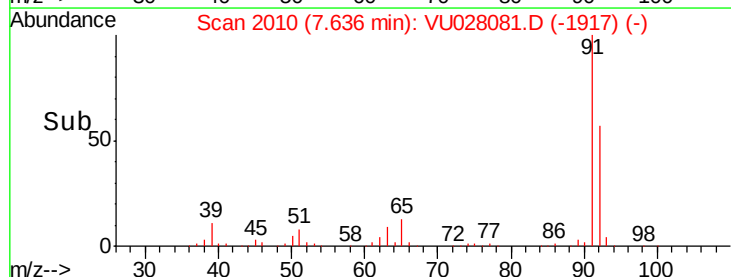
300000

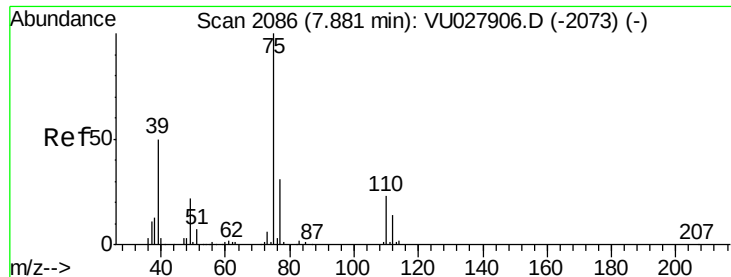
200000

100000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 54.335 ug/l

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 192036

Ion Ratio Lower Upper

75 100

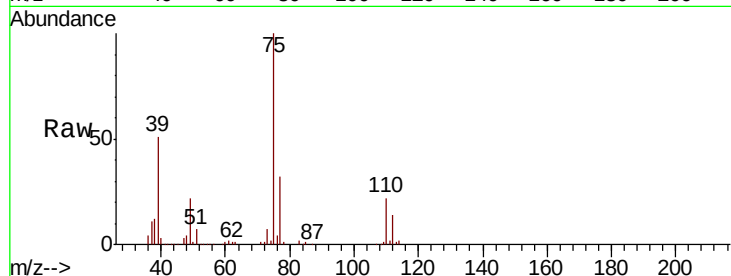
77 32.1 25.1 37.7

Manual Integrations

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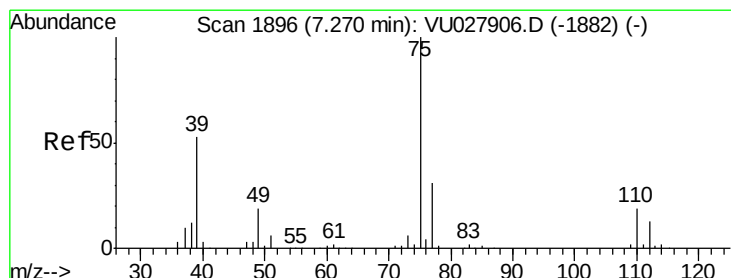
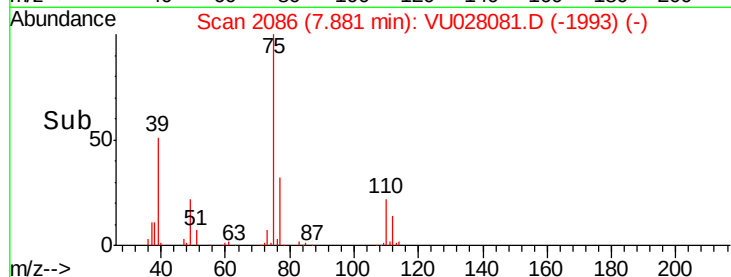
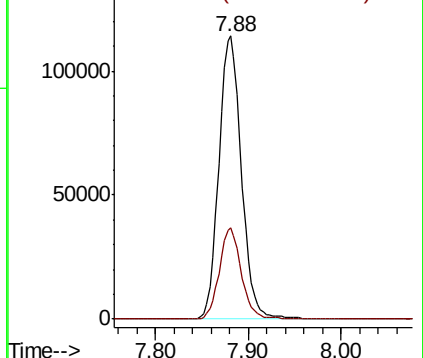
MMDadoda

11/14/2018 9:34:15 AM



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#54

cis-1,3-Dichloropropene

Concen: 58.727 ug/l

RT: 7.27 min Scan# 1896

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

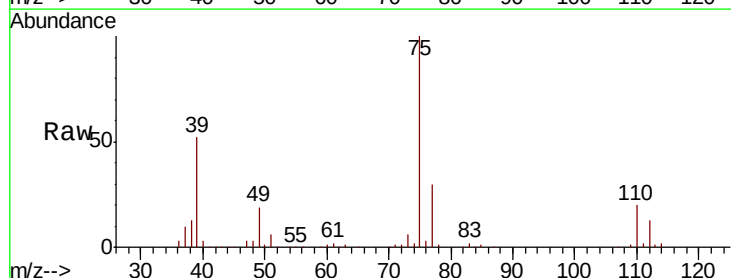
Tgt Ion: 75 Resp: 205954

Ion Ratio Lower Upper

75 100

77 30.2 24.6 37.0

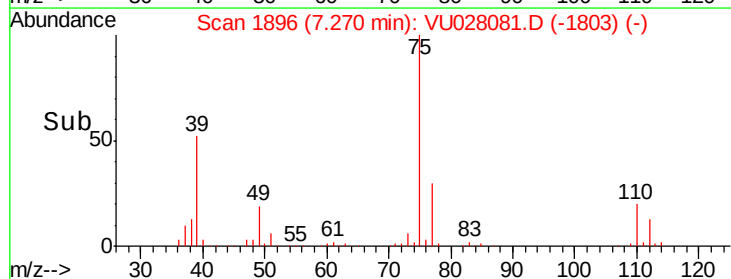
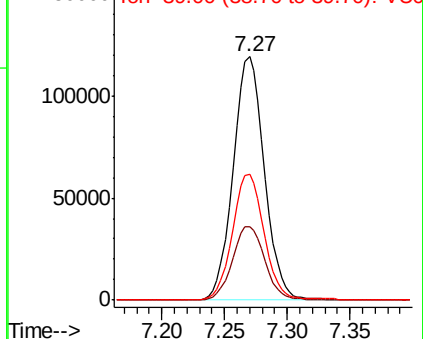
39 51.6 42.6 64.0

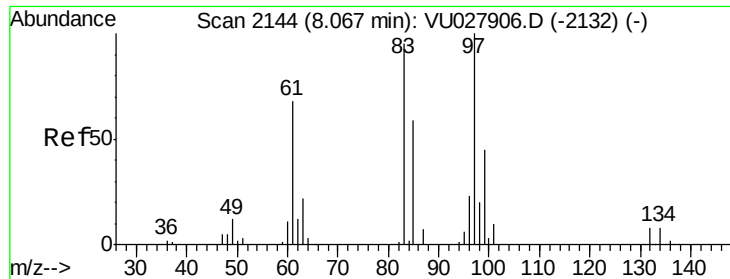


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





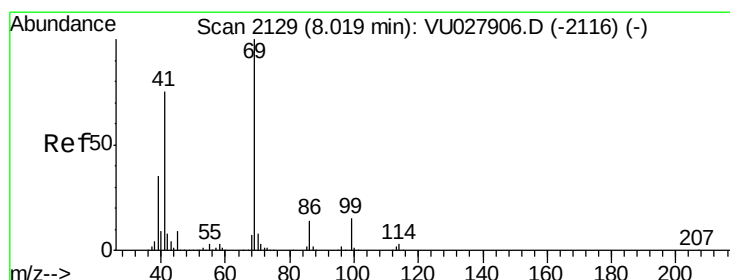
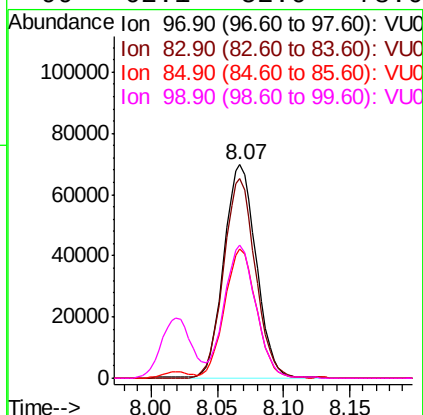
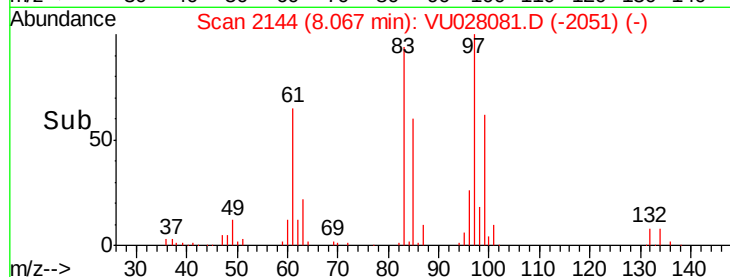
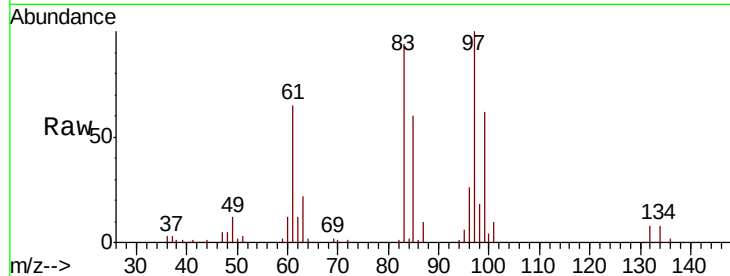
#55
1,1,2-Trichloroethane
Concen: 55.757 ug/l
RT: 8.07 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion:	97	Resp:	118757
Ion	Ratio	Lower	Upper
97	100		
83	93.7	76.1	114.1
85	60.3	48.9	73.3
99	62.1	52.0	78.0

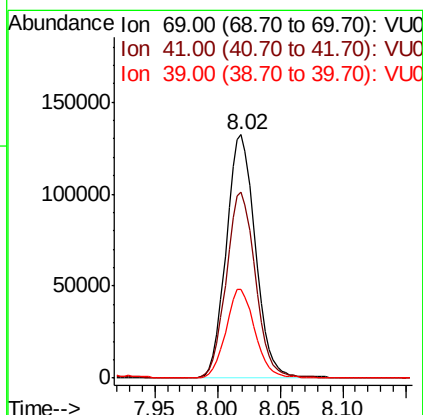
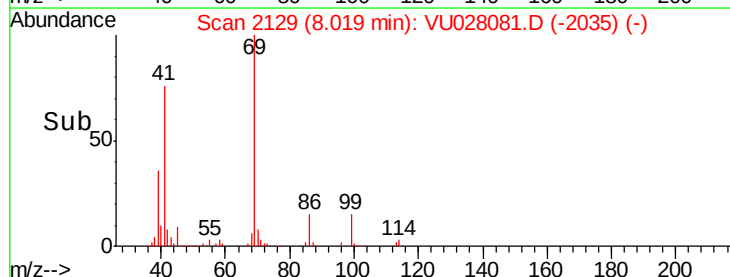
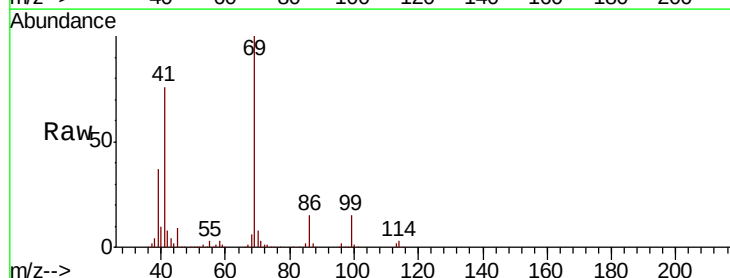
Manual Integrations
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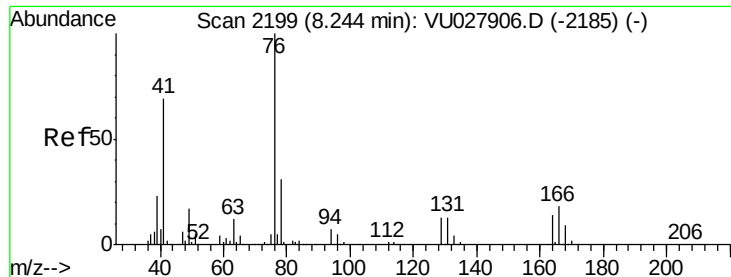
MMDadoda
11/14/2018 9:34:15 AM



#56
Ethyl methacrylate
Concen: 56.844 ug/l
RT: 8.02 min Scan# 2129
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion:	69	Resp:	213513
Ion	Ratio	Lower	Upper
69	100		
41	76.0	59.8	89.6
39	36.0	28.6	42.8





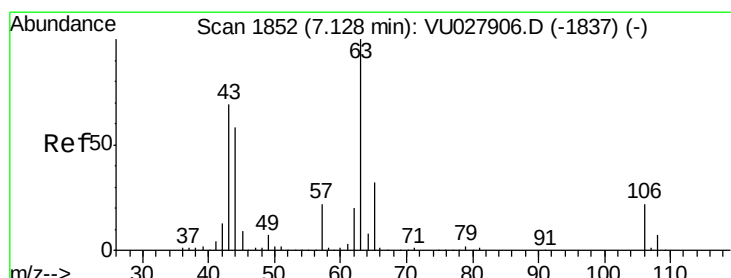
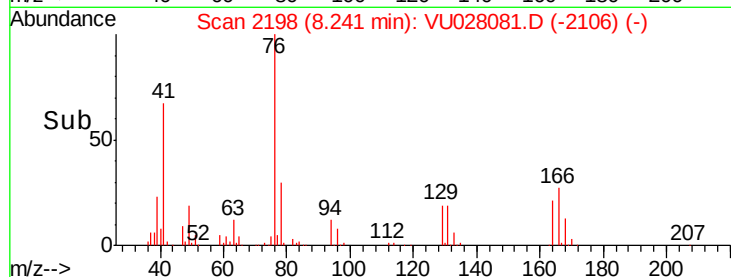
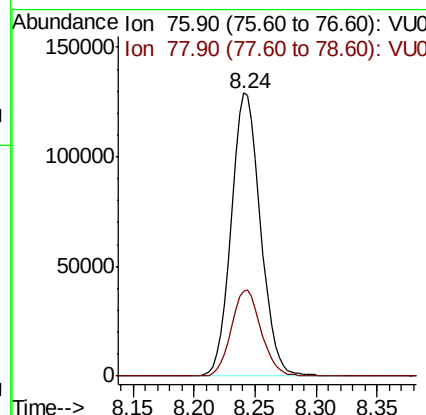
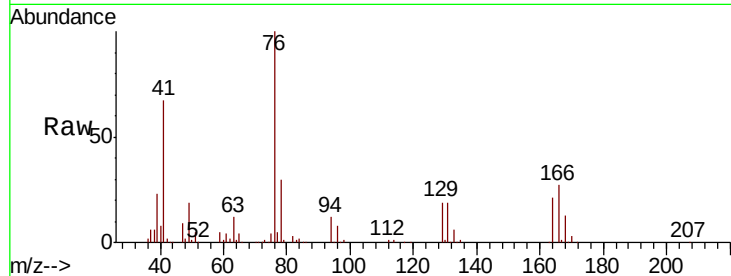
#57
 1,3-Dichloropropane
 Concen: 55.864 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. -0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 216745
 Ion Ratio Lower Upper
 76 100
 78 31.0 25.3 37.9

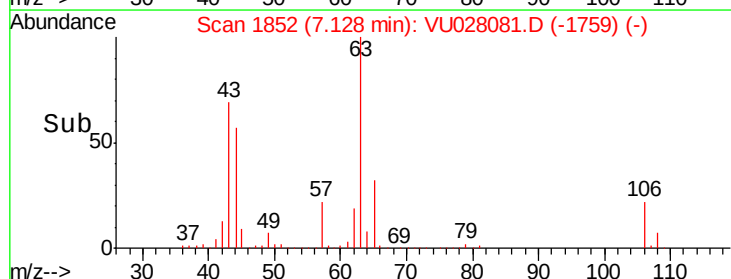
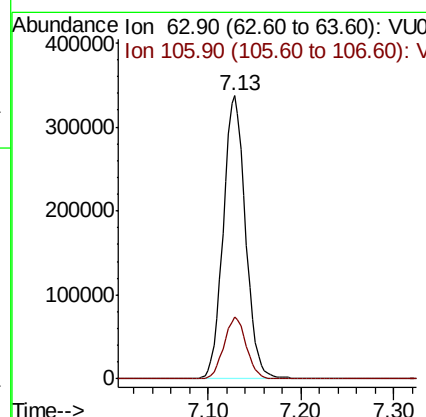
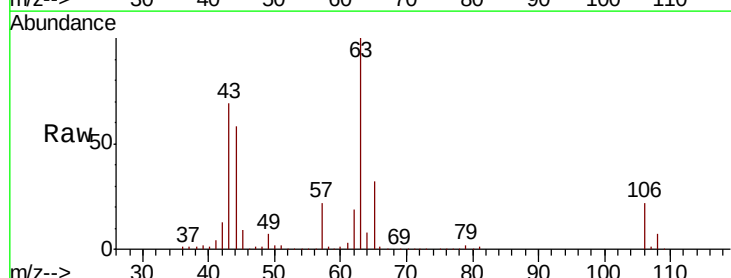
Manual Integrations
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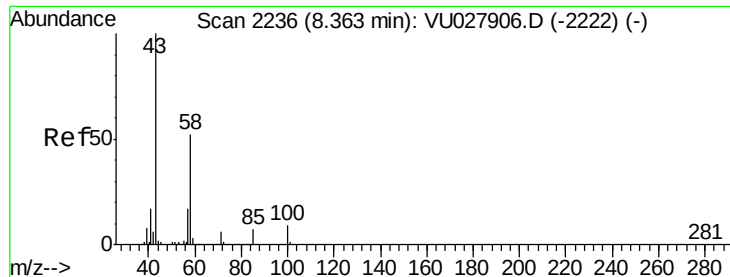
MMDadoda
 11/14/2018 9:34:15 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 279.256 ug/l
 RT: 7.13 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Tgt Ion: 63 Resp: 561771
 Ion Ratio Lower Upper
 63 100
 106 21.9 17.8 26.6





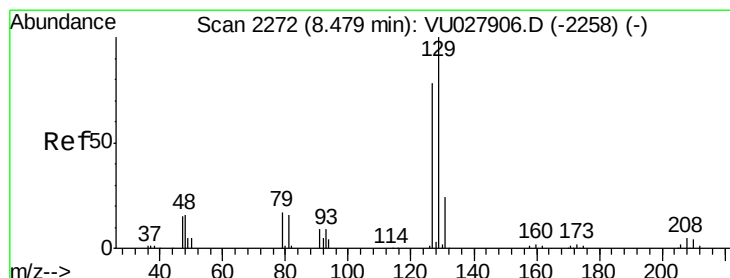
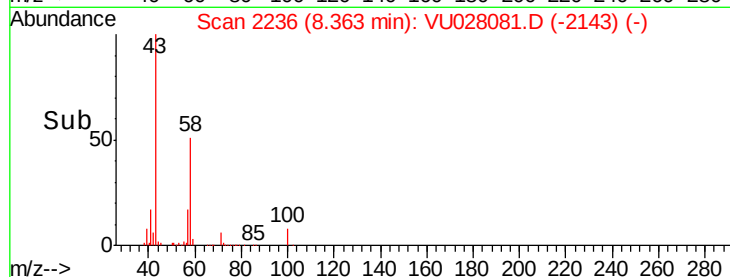
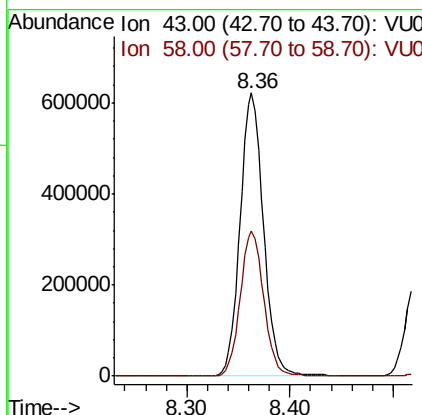
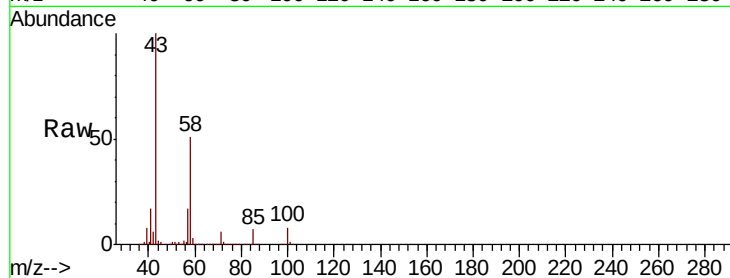
#59
2-Hexanone
Concen: 284.468 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 982428
Ion Ratio Lower Upper
43 100
58 51.6 25.8 77.3

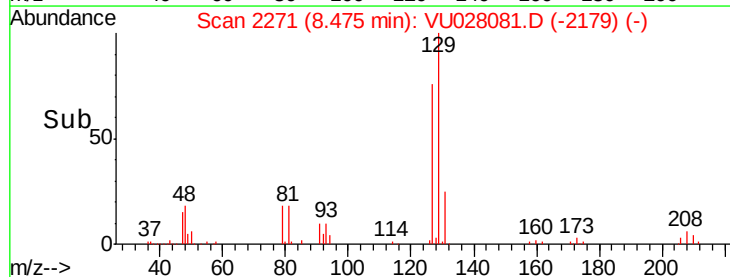
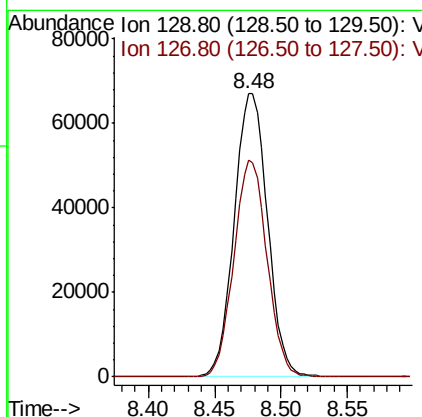
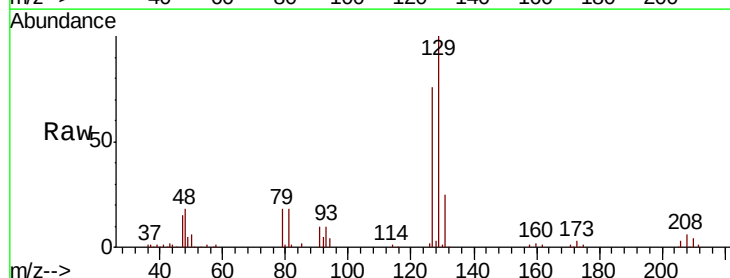
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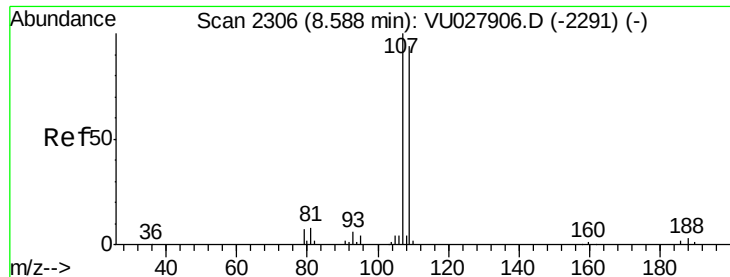
MMDadoda
11/14/2018 9:34:15 AM



#60
Dibromochloromethane
Concen: 58.093 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion: 129 Resp: 117087
Ion Ratio Lower Upper
129 100
127 76.1 39.2 117.6





#61

1,2-Dibromoethane

Concen: 54.261 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 122803

Ion Ratio Lower Upper

107 100

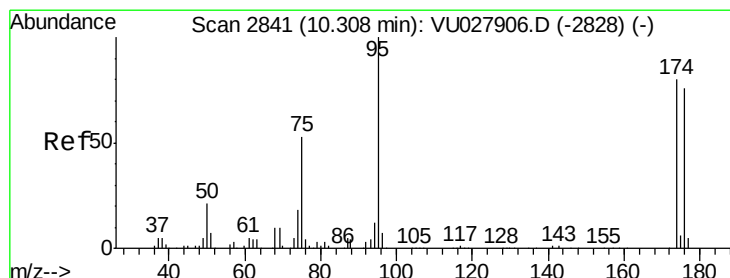
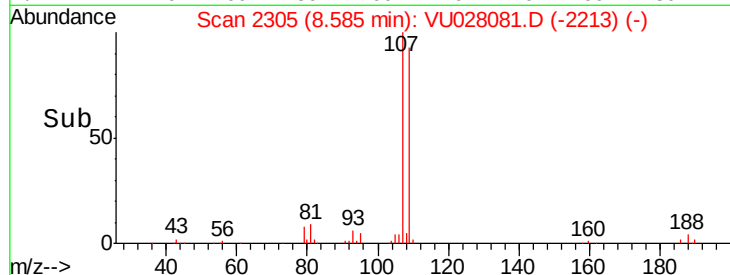
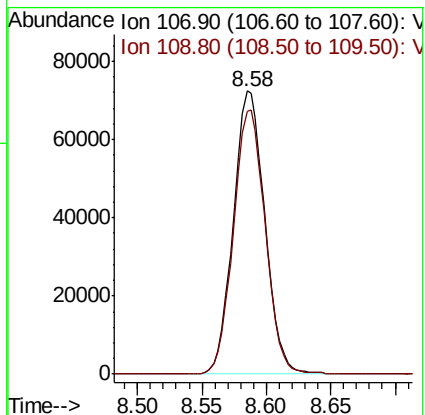
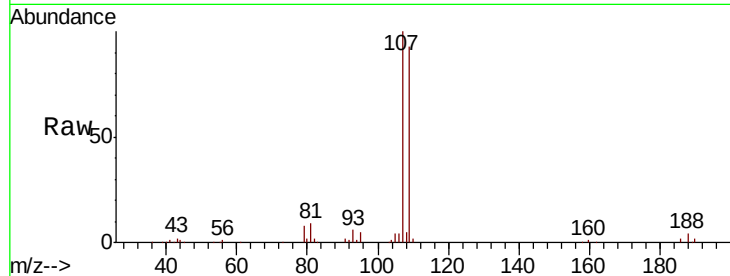
109 94.7 73.8 110.8

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#62

4-Bromofluorobenzene

Concen: 57.694 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

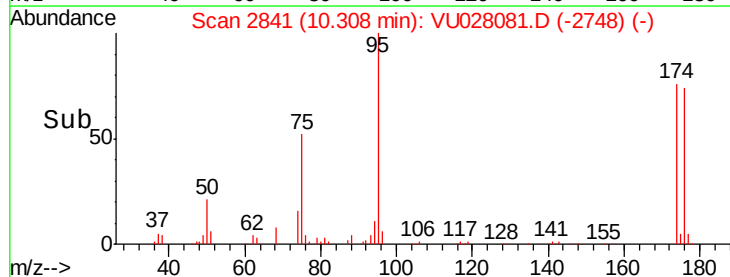
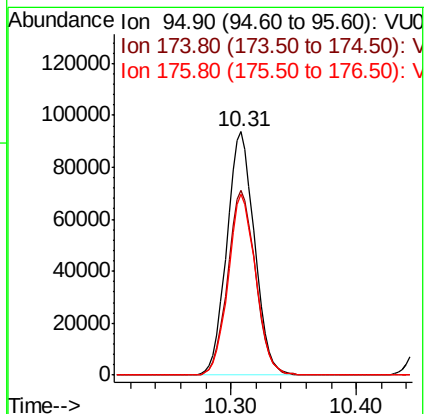
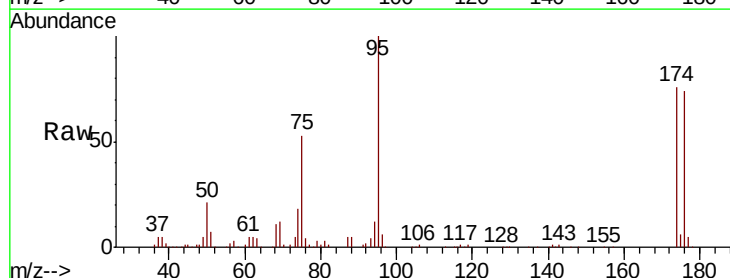
Tgt Ion: 95 Resp: 144140

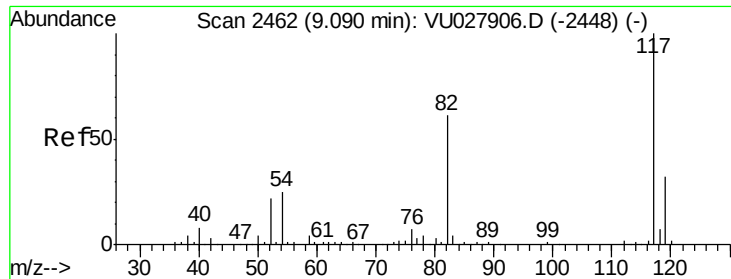
Ion Ratio Lower Upper

95 100

174 75.9 0.0 156.4

176 73.7 0.0 150.8





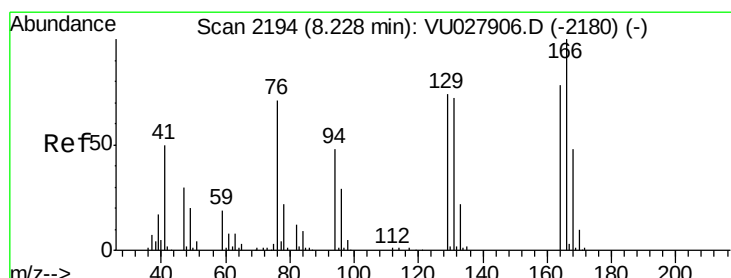
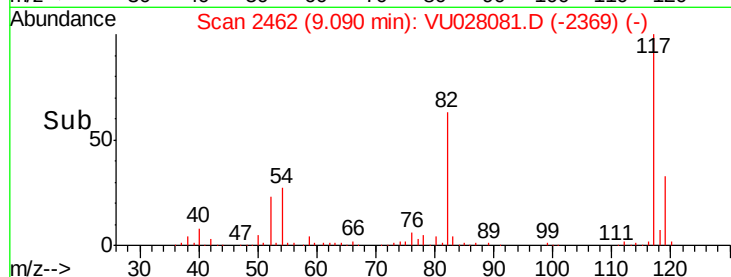
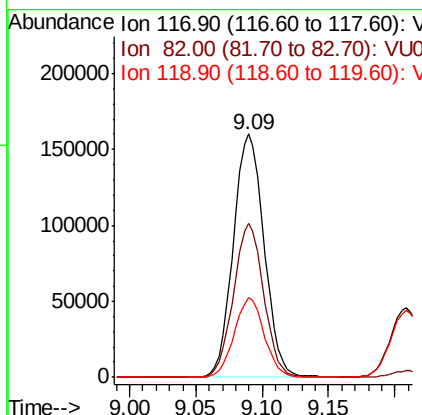
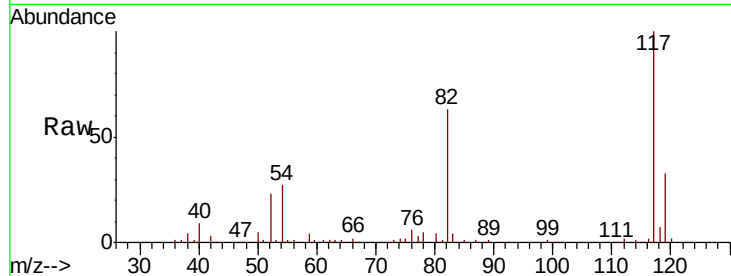
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.5	48.6	73.0
119	32.6	25.8	38.8

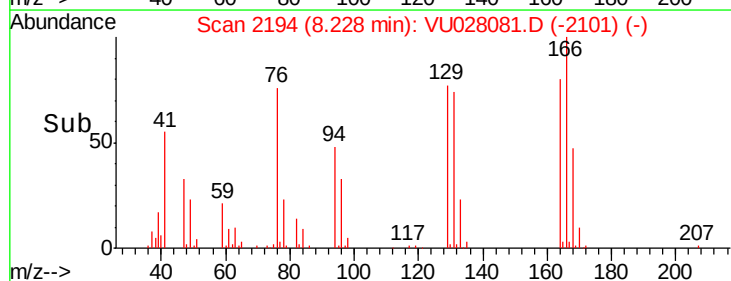
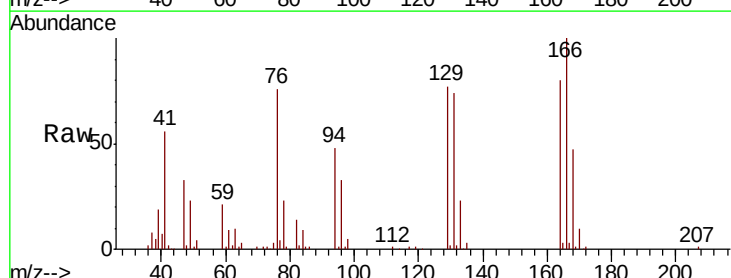
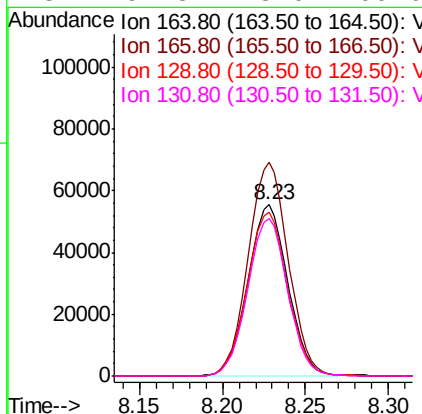
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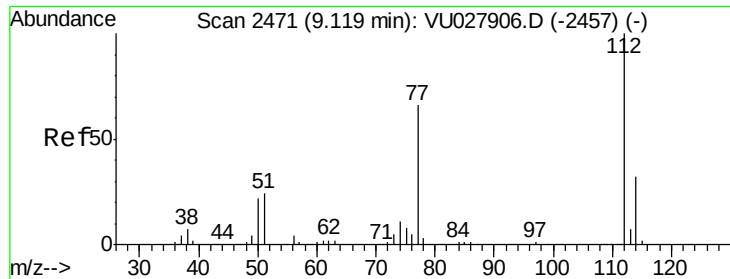
MMDadoda
11/14/2018 9:34:15 AM



#64
Tetrachloroethene
Concen: 55.283 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.9	102.1	153.1
129	95.8	75.9	113.9
131	92.3	73.0	109.6





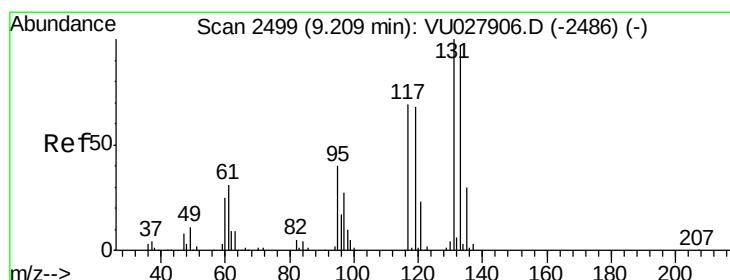
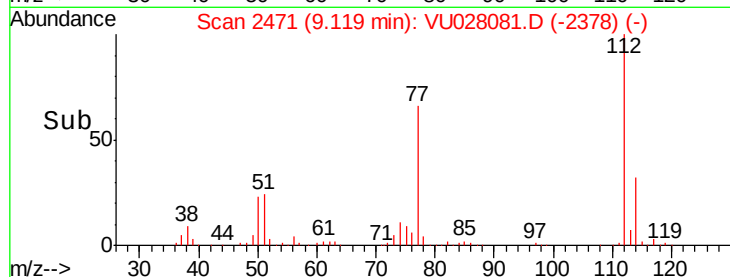
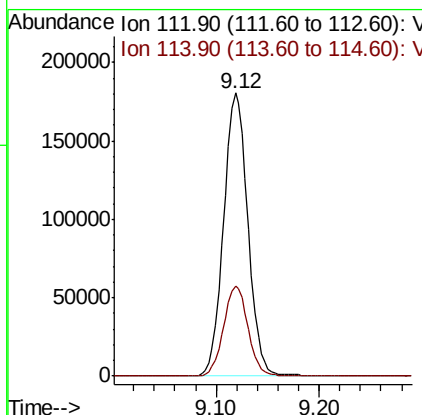
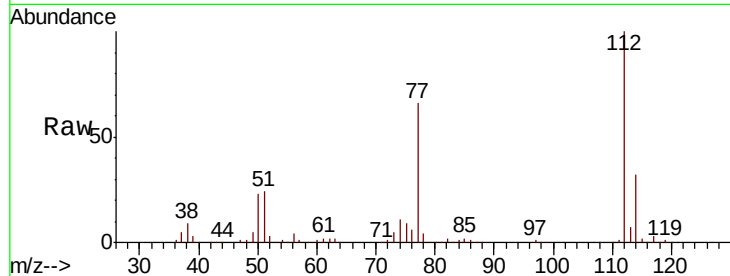
#65
Chlorobenzene
Concen: 54.189 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 296241
Ion Ratio Lower Upper
112 100
114 31.8 25.2 37.8

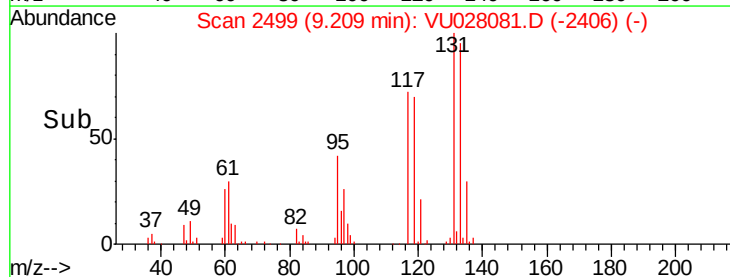
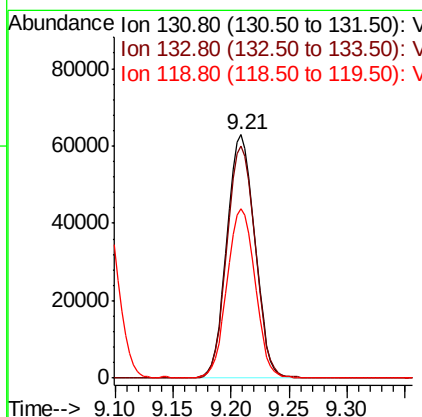
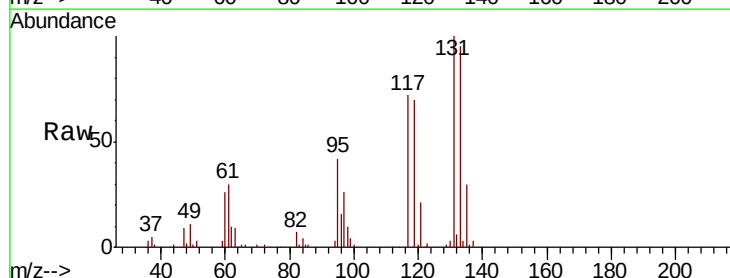
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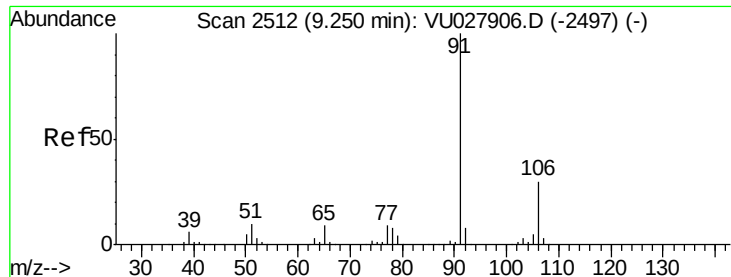
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#66
1,1,1,2-Tetrachloroethane
Concen: 56.427 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion:131 Resp: 105365
Ion Ratio Lower Upper
131 100
133 96.2 48.1 144.4
119 69.4 34.0 101.8





#67

Ethyl Benzene

Concen: 55.759 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 561082

Ion Ratio Lower Upper

91 100

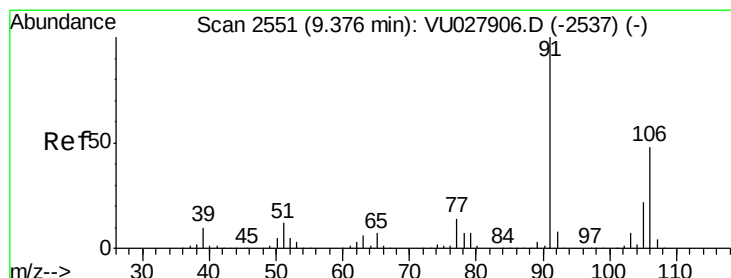
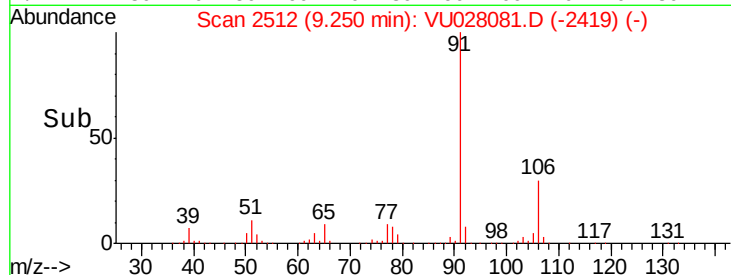
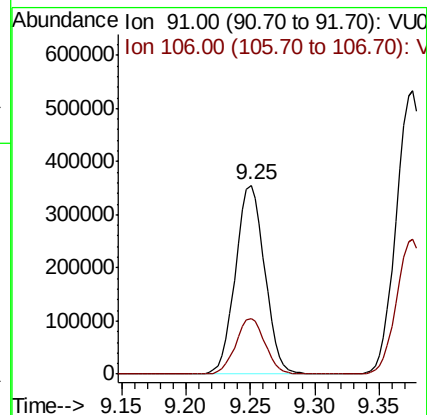
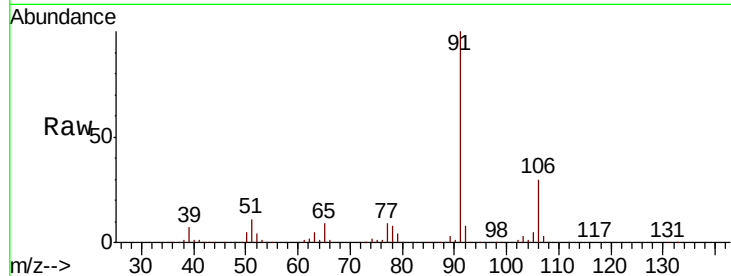
106 29.6 23.6 35.4

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#68

m/p-Xylenes

Concen: 111.822 ug/l

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028081.D

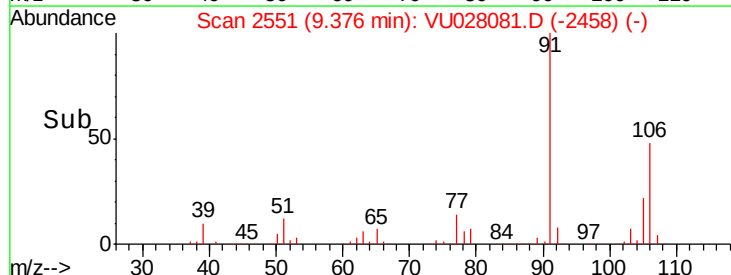
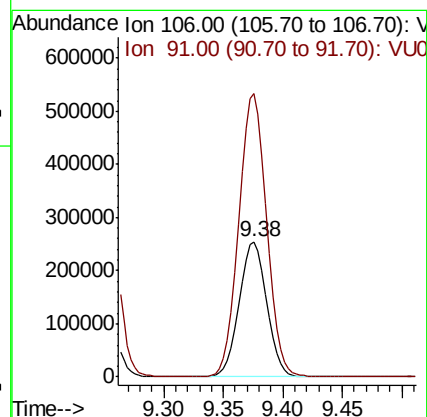
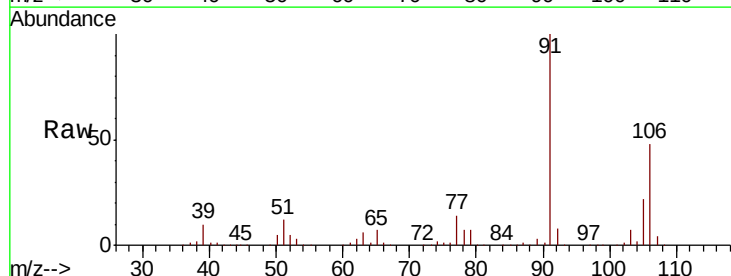
Acq: 13 Nov 2018 10:37

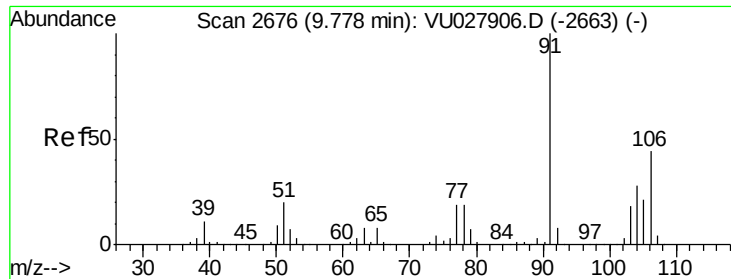
Tgt Ion: 106 Resp: 408275

Ion Ratio Lower Upper

106 100

91 211.1 168.2 252.4





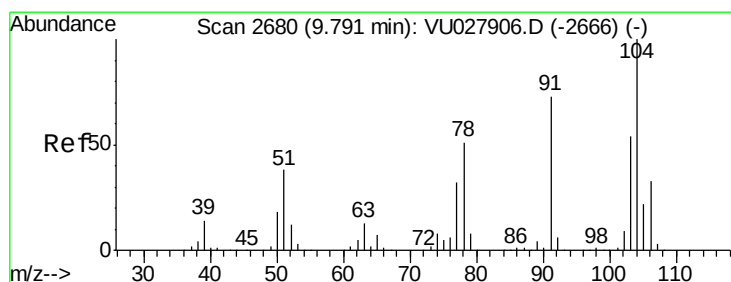
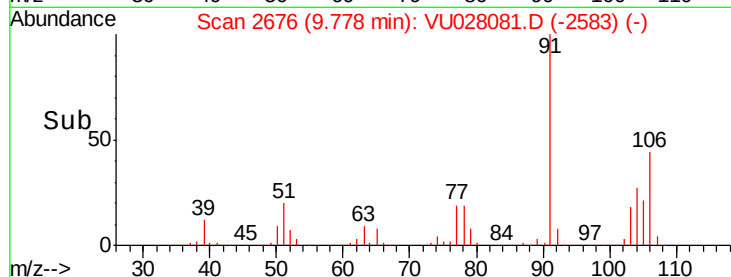
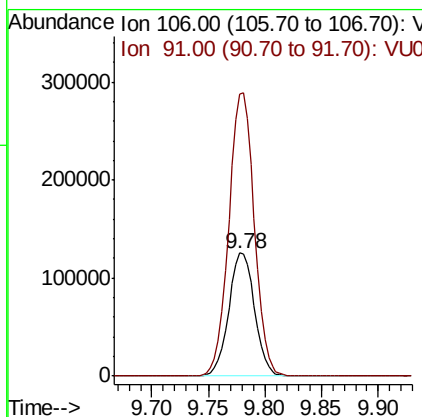
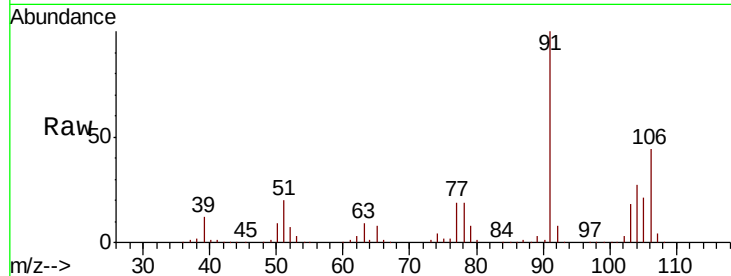
#69
o-Xylene
Concen: 54.070 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 199348
Ion Ratio Lower Upper
106 100
91 227.1 111.1 333.4

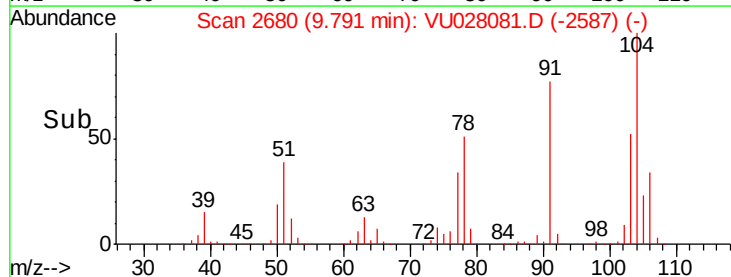
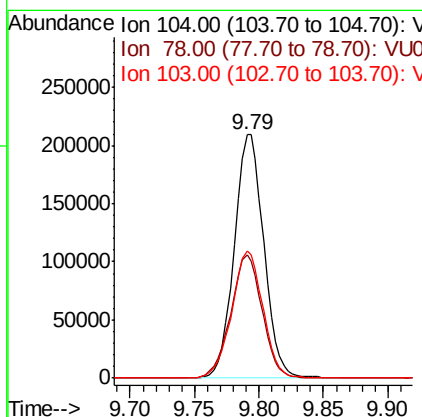
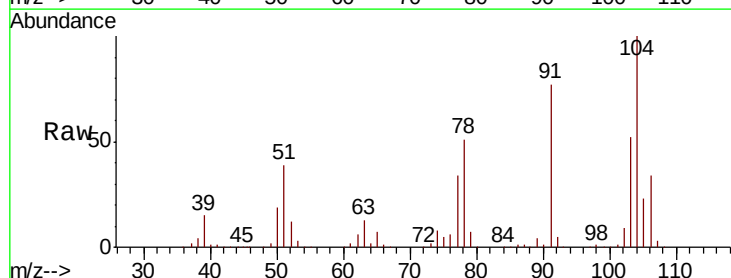
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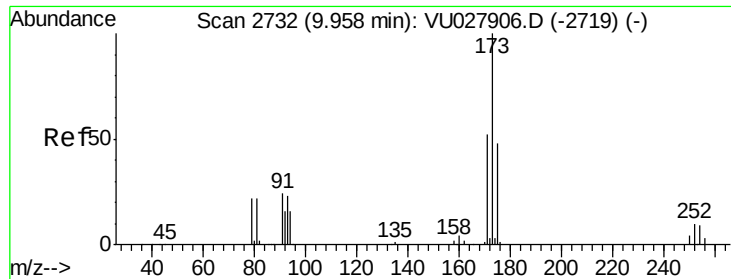
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#70
Styrene
Concen: 56.548 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion:104 Resp: 333120
Ion Ratio Lower Upper
104 100
78 54.0 43.0 64.4
103 55.2 45.1 67.7





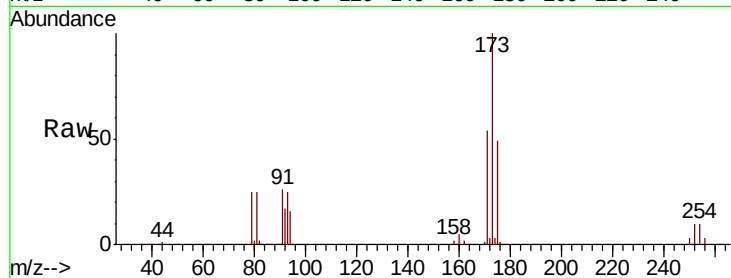
#71
Bromoform
Concen: 58.321 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

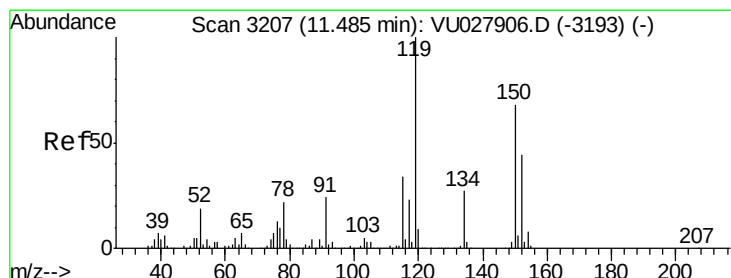
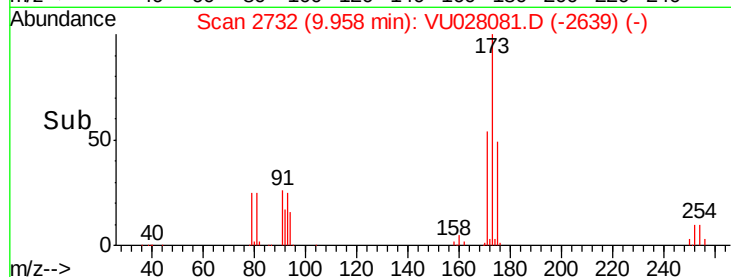
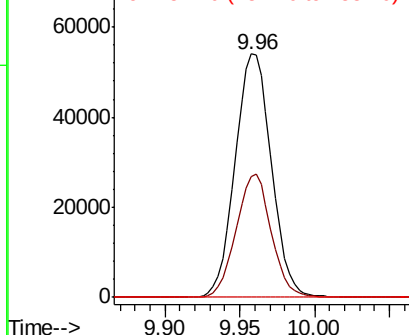
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.3	72.8
254	0.0	0.0	0.0

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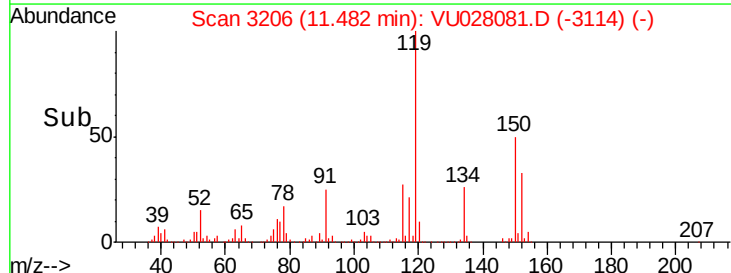
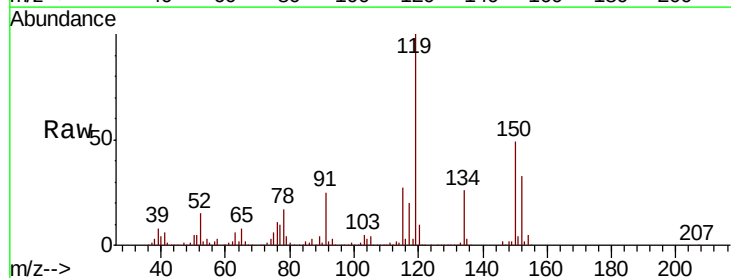
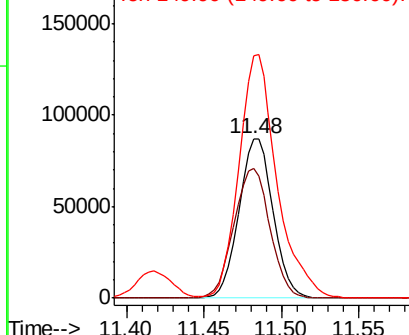
Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

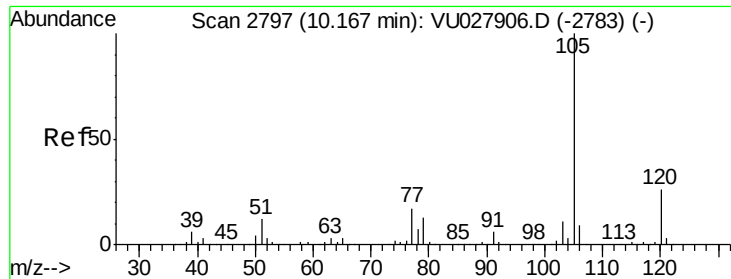


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	86.5	43.0	129.0
150	171.1	0.0	349.4

Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





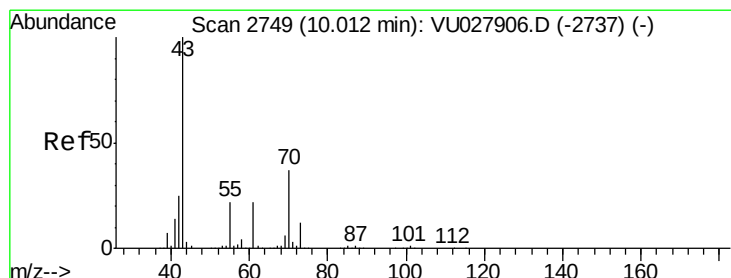
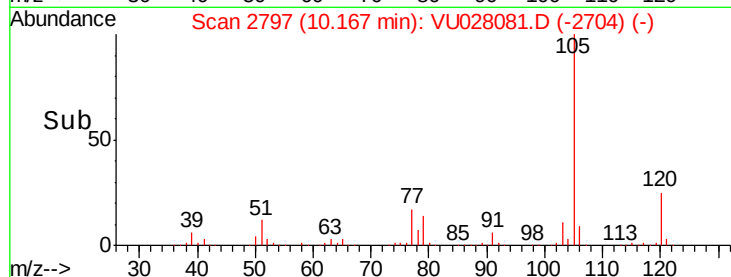
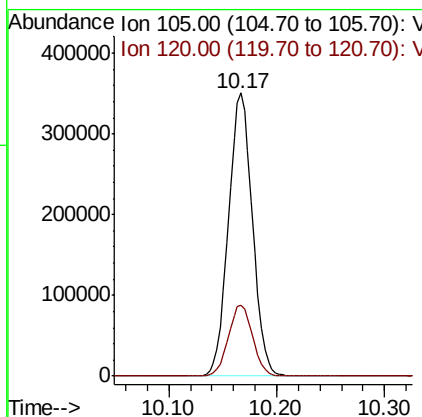
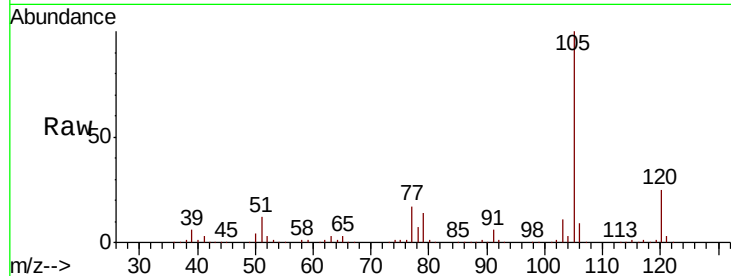
#73
Isopropylbenzene
Concen: 52.623 ug/l
RT: 10.17 min Scan# 2797
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 105 Resp: 542619
Ion Ratio Lower Upper
105 100
120 25.4 12.7 38.0

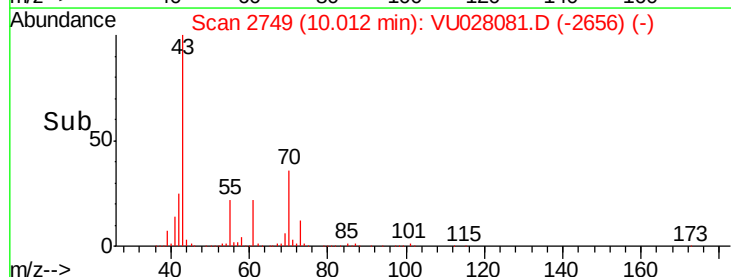
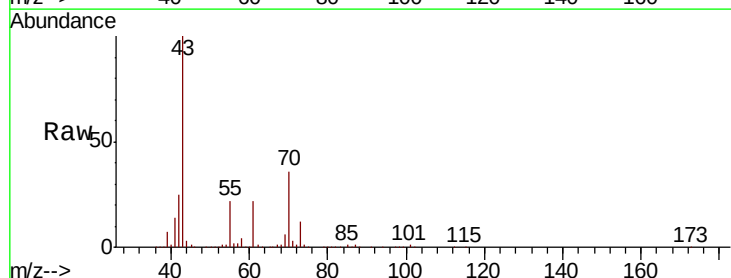
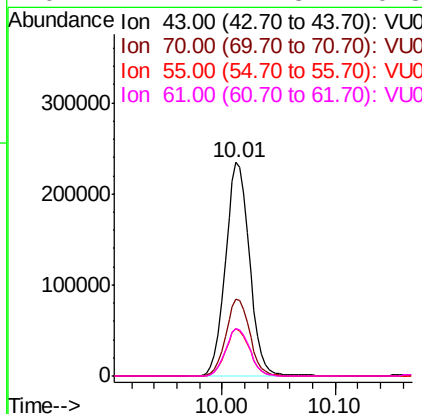
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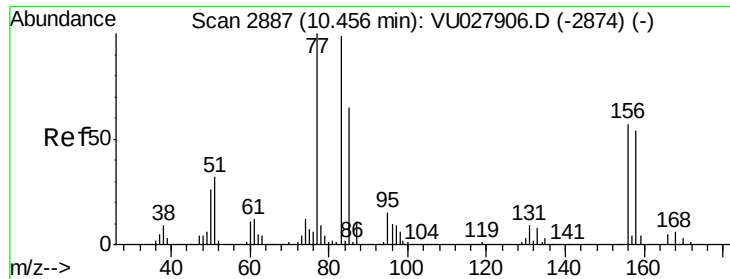
MMDadoda
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#74
N-ethyl acetate
Concen: 55.600 ug/l
RT: 10.01 min Scan# 2749
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion: 43 Resp: 346669
Ion Ratio Lower Upper
43 100
70 36.0 29.2 43.8
55 22.2 17.8 26.6
61 22.2 17.8 26.8





#75

1,1,2,2-Tetrachloroethane

Concen: 52.794 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 219585

Ion Ratio Lower Upper

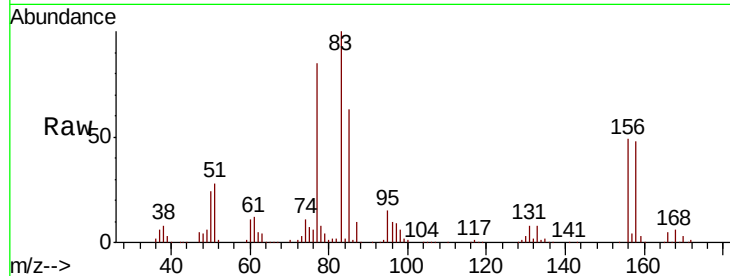
83 100

131 8.2 4.3 13.1

85 64.1 32.4 97.2

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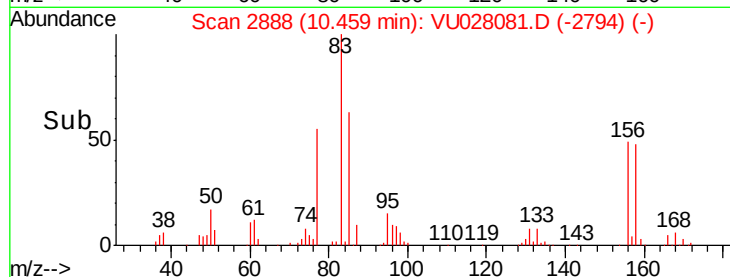


Abundance Ion 82.90 (82.60 to 83.60): VU028081.D (-2874) (-)

Ion 130.80 (130.50 to 131.50): VU028081.D (-2874) (-)

Ion 84.90 (84.60 to 85.60): VU028081.D (-2874) (-)

Time-->

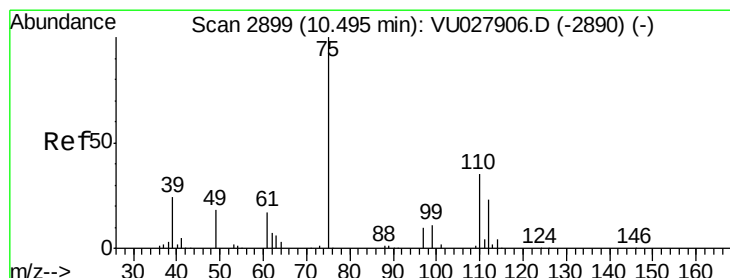


Abundance Ion 82.90 (82.60 to 83.60): VU028081.D (-2794) (-)

Ion 130.80 (130.50 to 131.50): VU028081.D (-2794) (-)

Ion 84.90 (84.60 to 85.60): VU028081.D (-2794) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 51.365 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028081.D

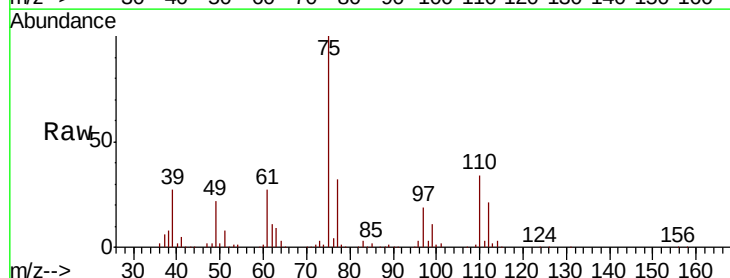
Acq: 13 Nov 2018 10:37

Tgt Ion: 75 Resp: 187008

Ion Ratio Lower Upper

75 100

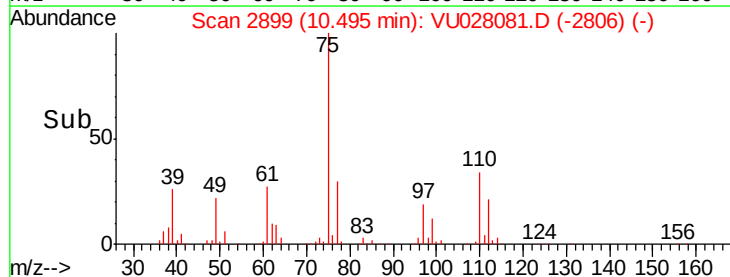
77 43.5 21.6 64.6



Abundance Ion 74.90 (74.60 to 75.60): VU028081.D (-2890) (-)

Ion 77.00 (76.70 to 77.70): VU028081.D (-2890) (-)

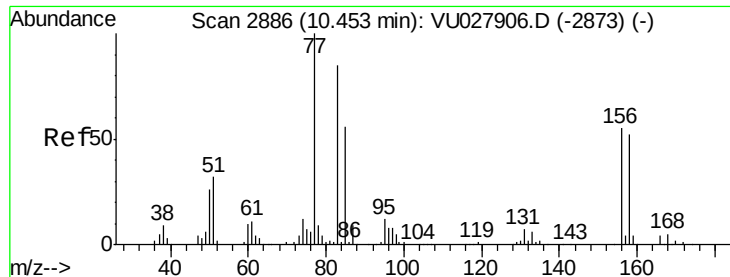
Time-->



Abundance Ion 74.90 (74.60 to 75.60): VU028081.D (-2806) (-)

Ion 77.00 (76.70 to 77.70): VU028081.D (-2806) (-)

Time-->



#77

Bromobenzene

Concen: 53.359 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

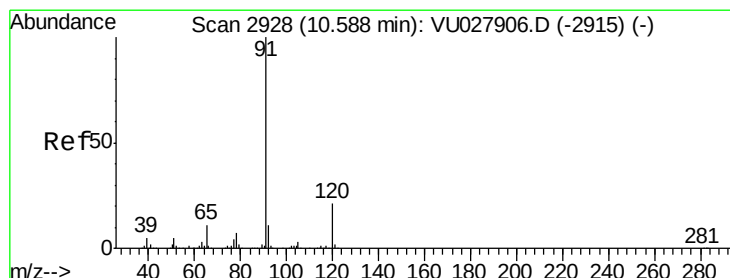
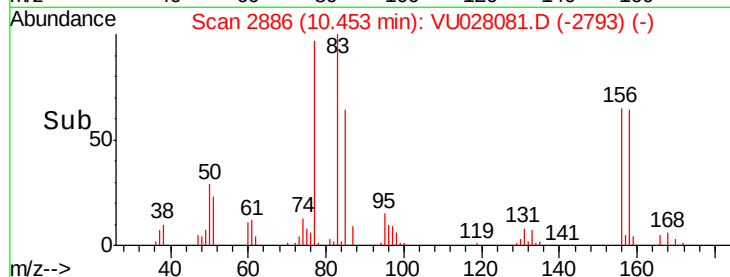
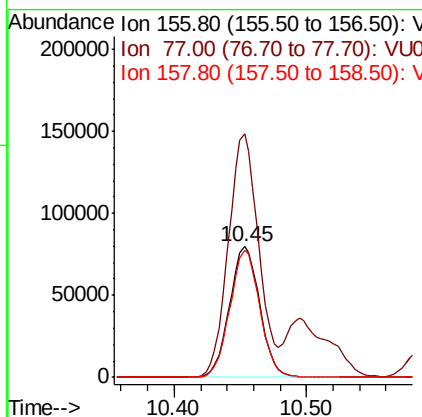
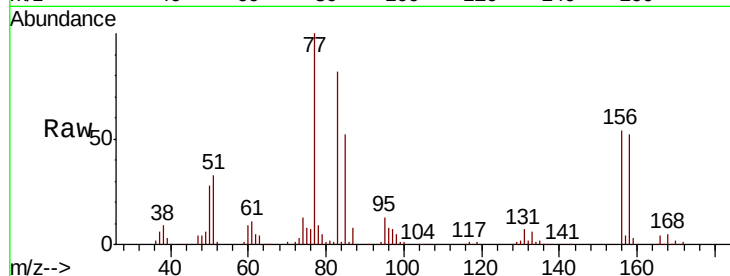
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	126162
Ion Ratio	Lower	Upper	
156	100		
77	187.7	91.8	275.6
158	96.3	48.4	145.2

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#78

n-propylbenzene

Concen: 54.659 ug/l

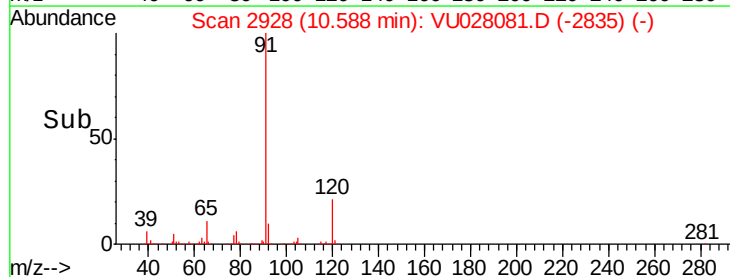
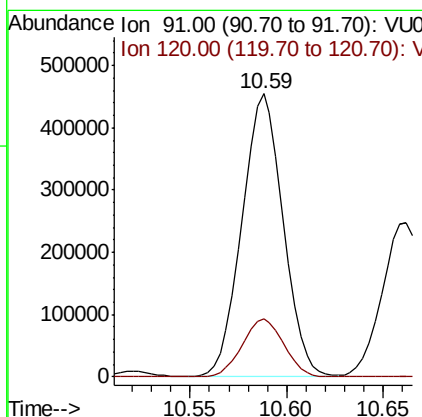
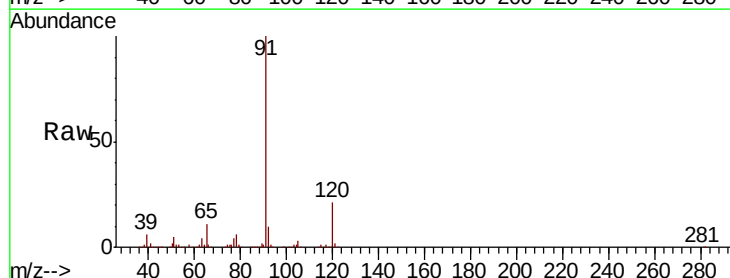
RT: 10.59 min Scan# 2928

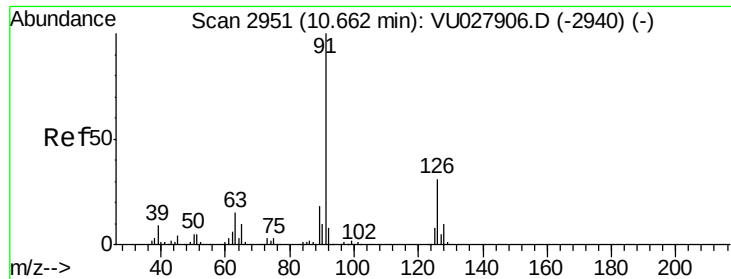
Delta R.T. -0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Tgt Ion:	91	Resp:	674634
Ion Ratio	Lower	Upper	
91	100		
120	20.7	10.6	31.8





#79

2-Chlorotoluene

Concen: 52.948 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 391723

Ion Ratio Lower Upper

91 100

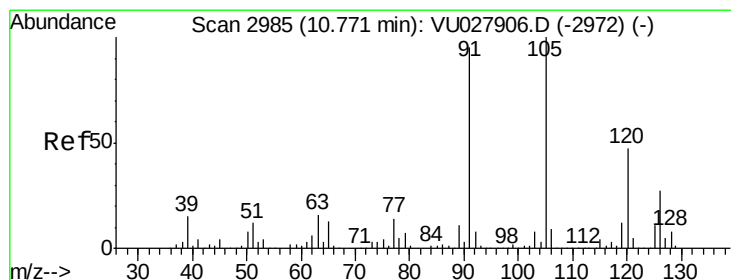
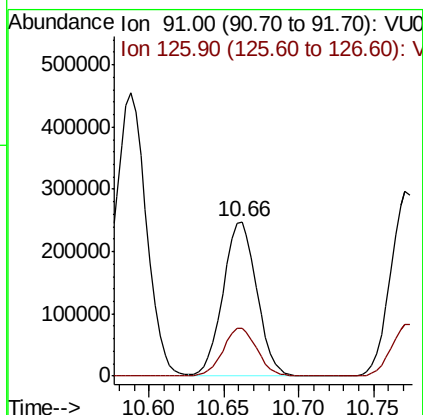
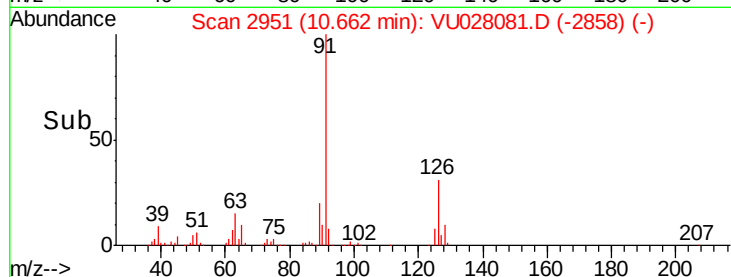
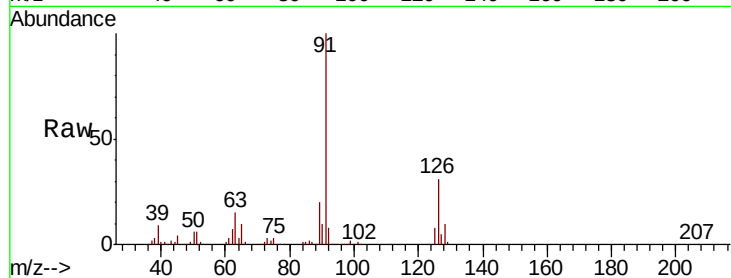
126 31.1 16.0 47.9

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#80

1,3,5-Trimethylbenzene

Concen: 53.750 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028081.D

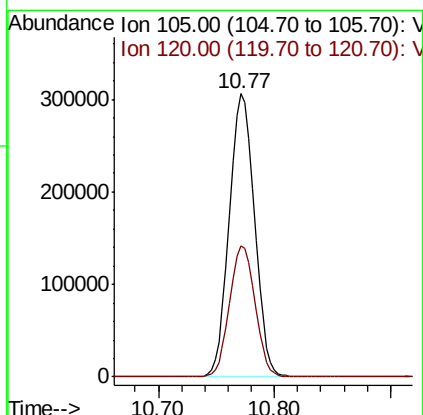
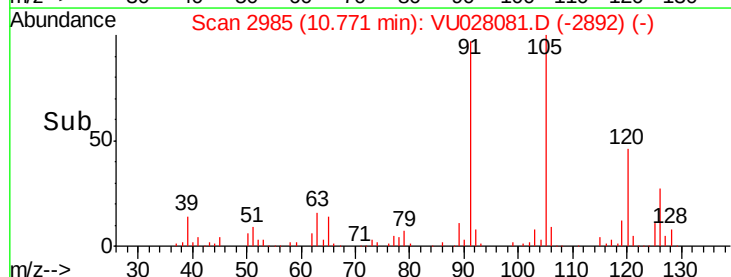
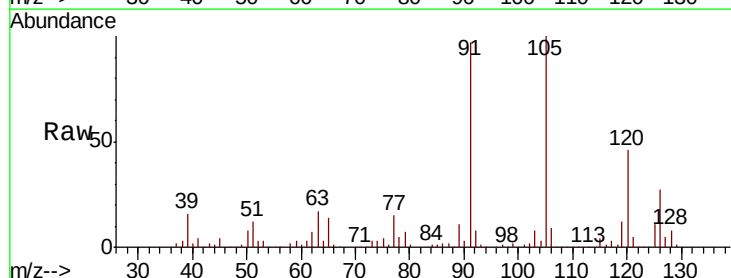
Acq: 13 Nov 2018 10:37

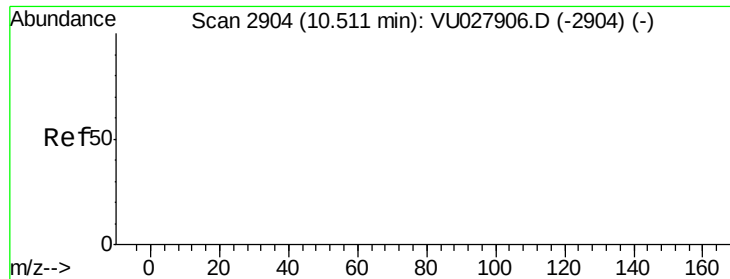
Tgt Ion: 105 Resp: 459123

Ion Ratio Lower Upper

105 100

120 46.5 23.3 69.9





#81

trans-1,4-Dichloro-2-butene

Concen: 53.702 ug/l

RT: 10.51 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VU028081.D

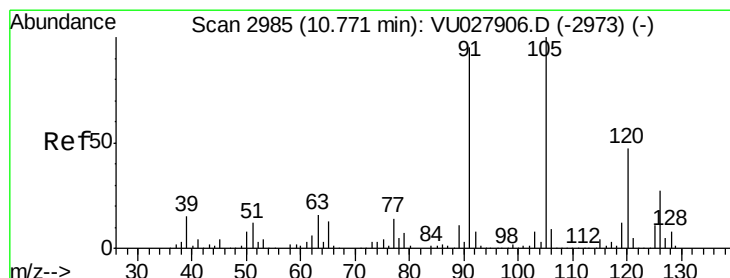
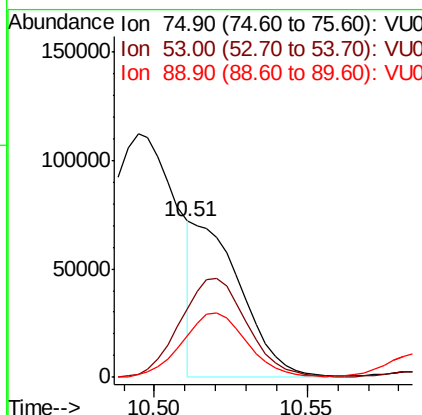
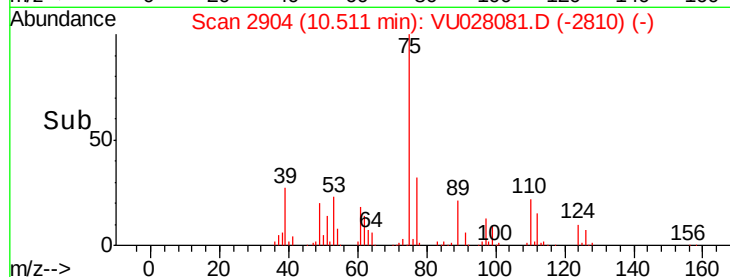
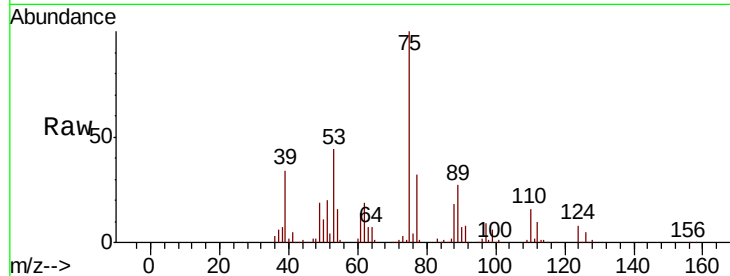
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

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#82

4-Chlorotoluene

Concen: 53.493 ug/l

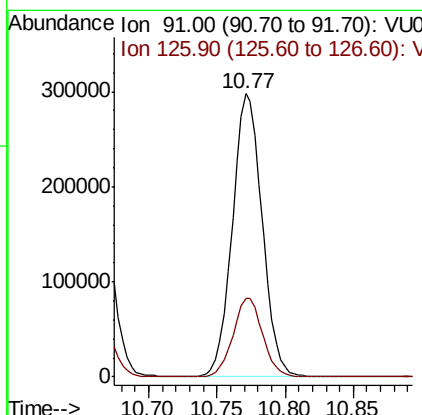
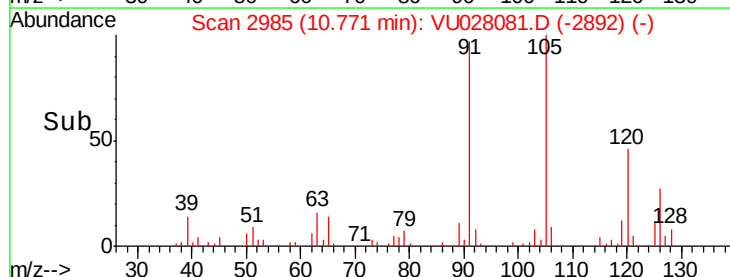
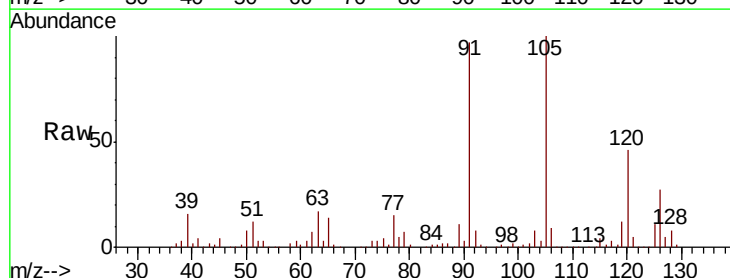
RT: 10.77 min Scan# 2985

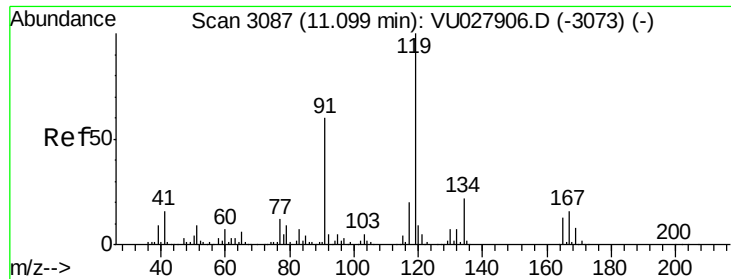
Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.8	14.2	42.6





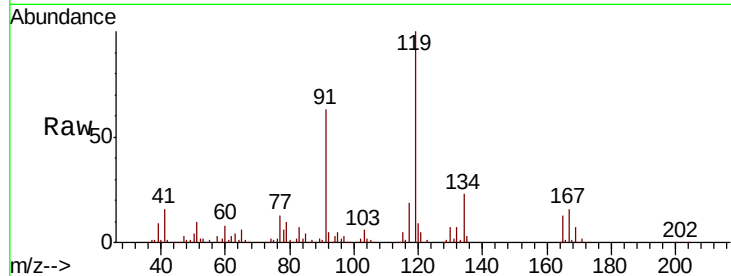
#83
tert-Butylbenzene
Concen: 51.823 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

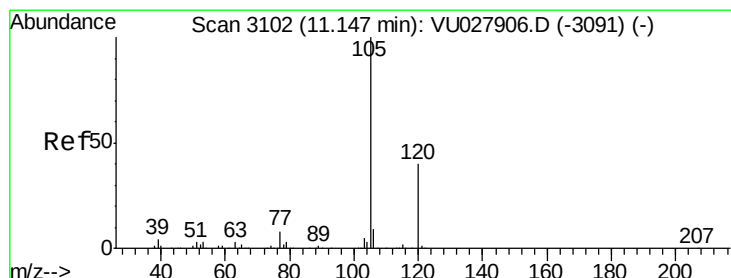
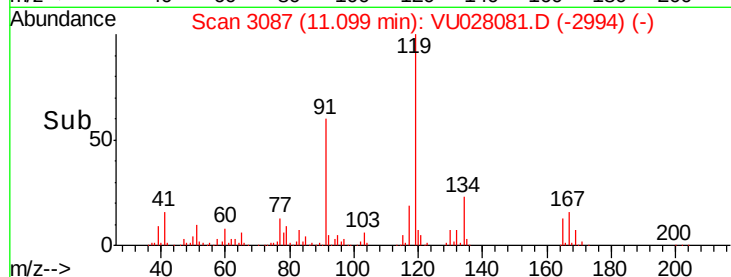
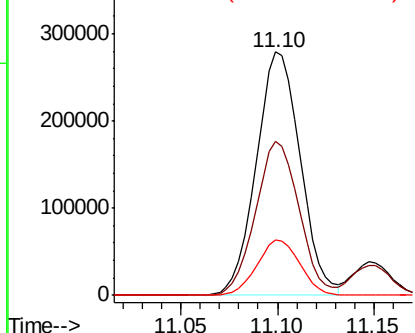
Tot Ion	Ratio	Resp	Lower	Upper
119	100	442537		
91	62.2	29.8	89.3	
134	22.1	11.1	33.1	

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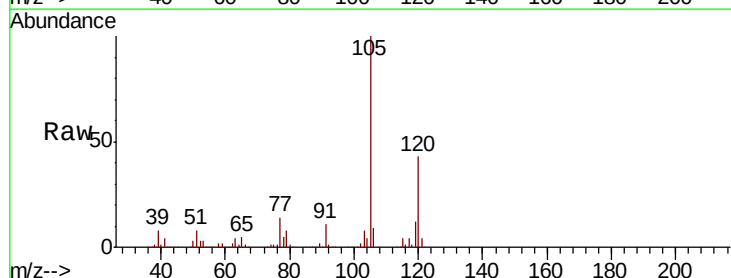


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

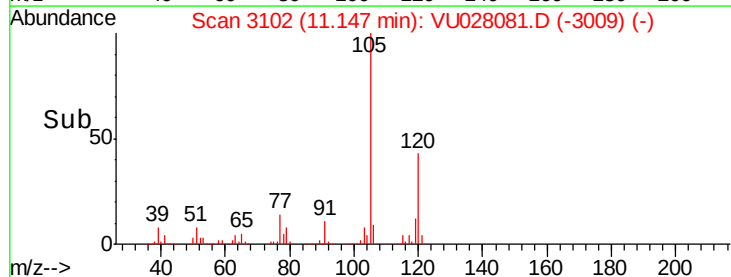
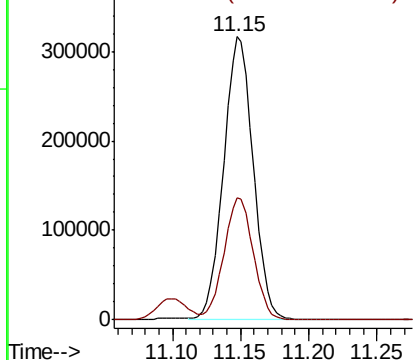


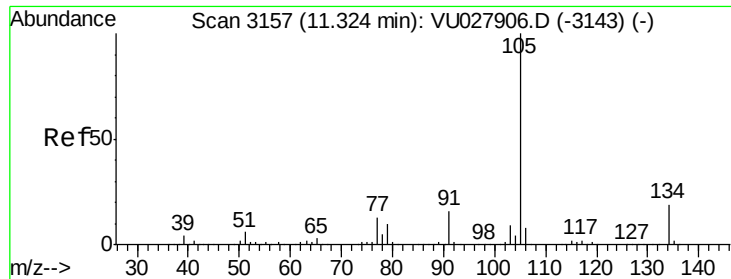
#84
1,2,4-Trimethylbenzene
Concen: 55.195 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	474745		
120	42.9	22.1	66.1	



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 55.052 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 571729

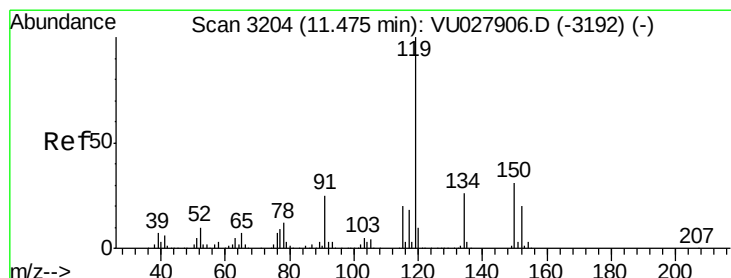
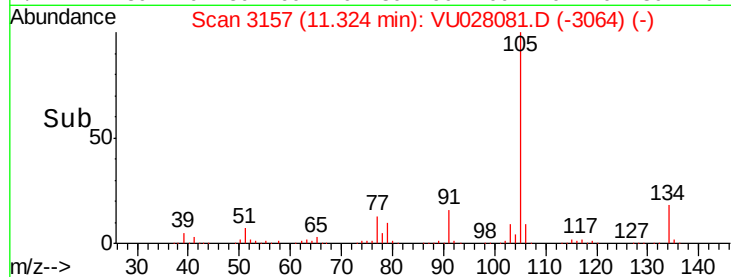
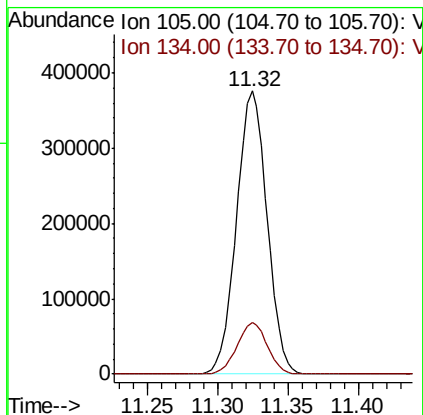
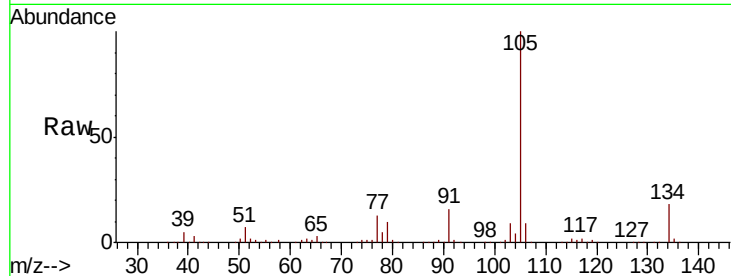
Ion Ratio Lower Upper

105 100

134 18.1 9.2 27.6

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#86

p-Isopropyltoluene

Concen: 54.951 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

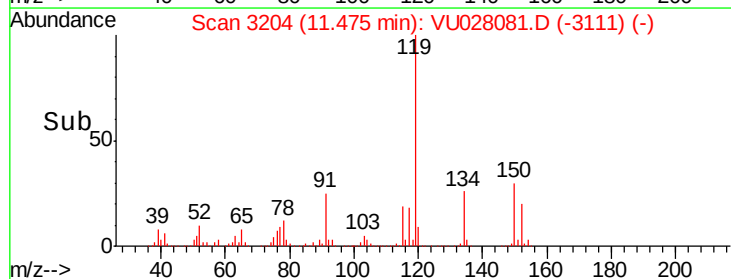
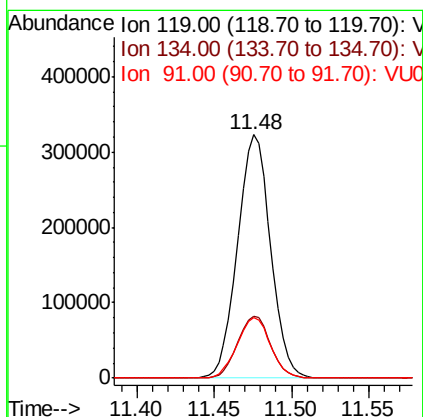
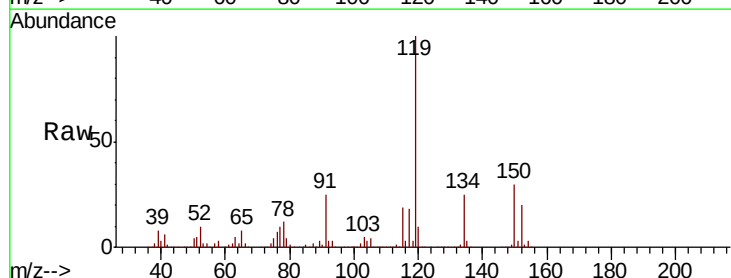
Tgt Ion:119 Resp: 477074

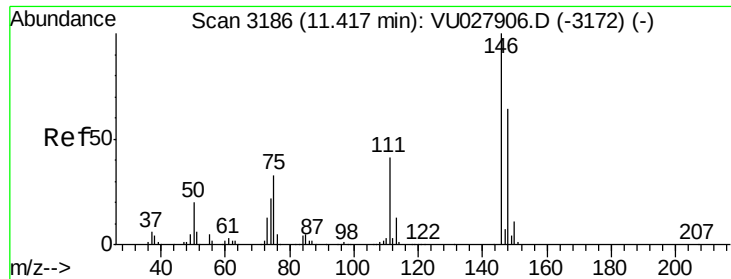
Ion Ratio Lower Upper

119 100

134 25.6 12.9 38.7

91 25.4 12.4 37.2





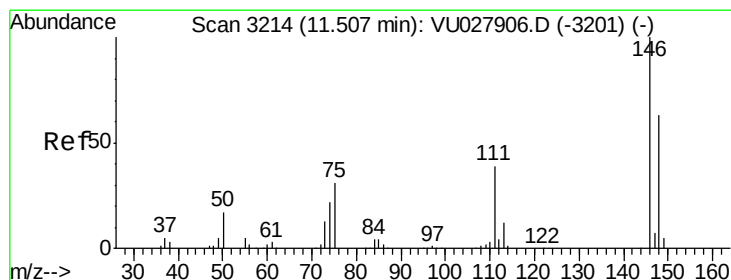
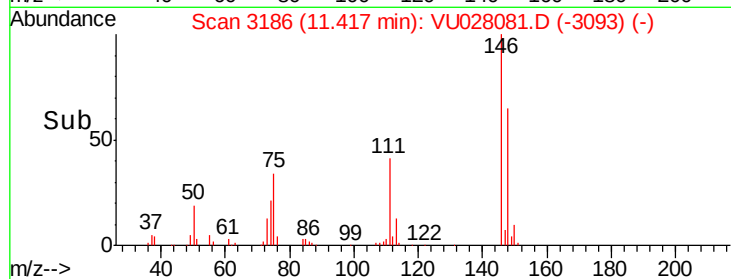
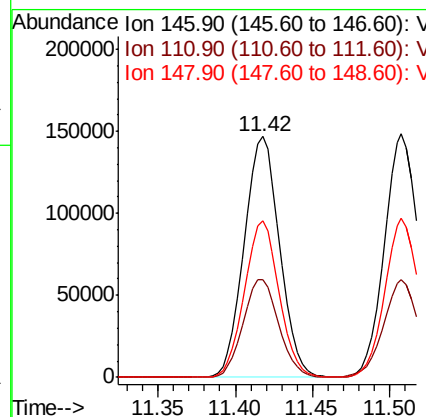
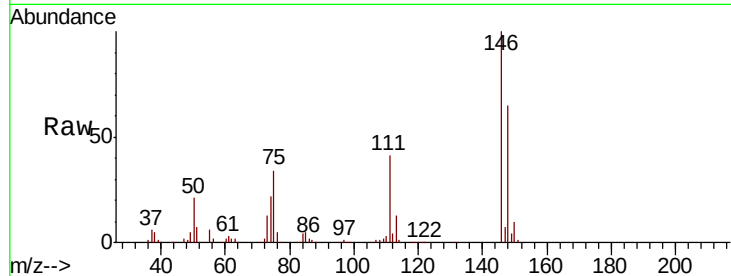
#87
 1,3-Dichlorobenzene
 Concen: 53.567 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.3	61.0
148	63.4	31.8	95.4

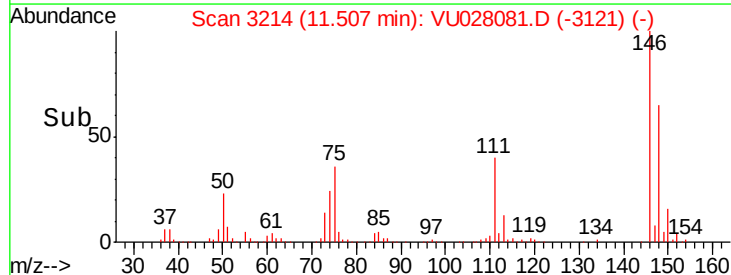
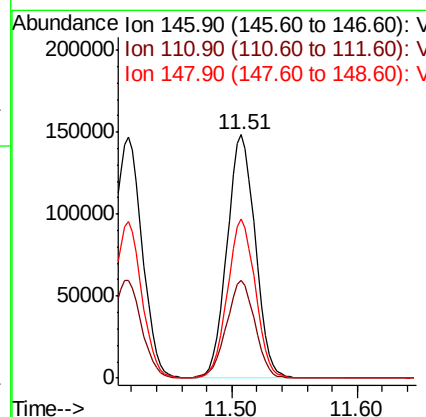
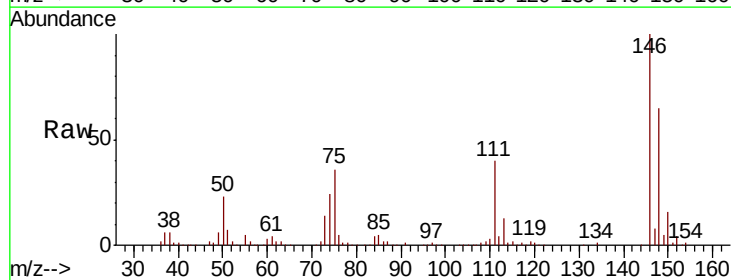
Manual Integrations
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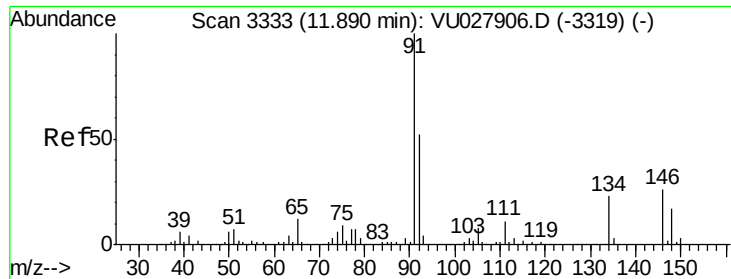
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#88
 1,4-Dichlorobenzene
 Concen: 51.438 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.3	60.9
148	65.1	32.0	96.2





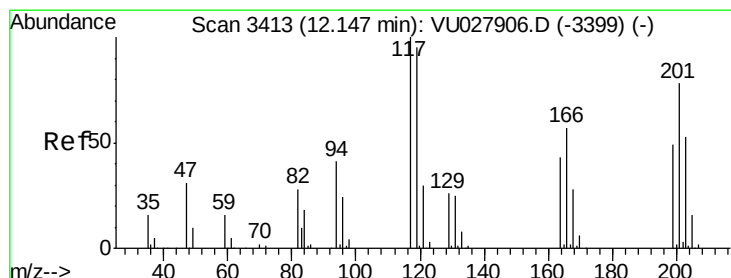
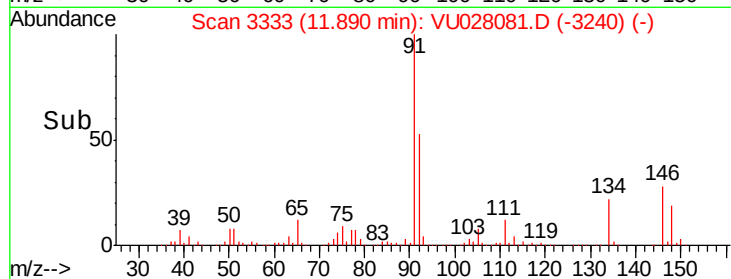
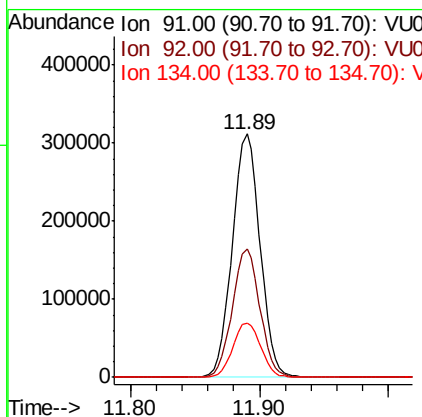
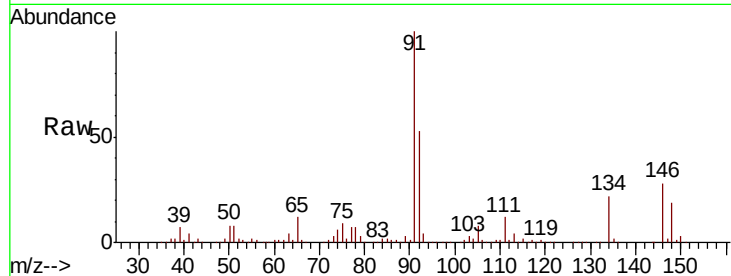
#89
n-Butylbenzene
Concen: 56.436 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.2	78.5
134	22.5	11.5	34.5

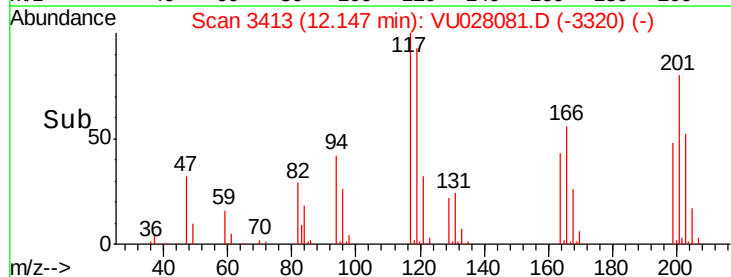
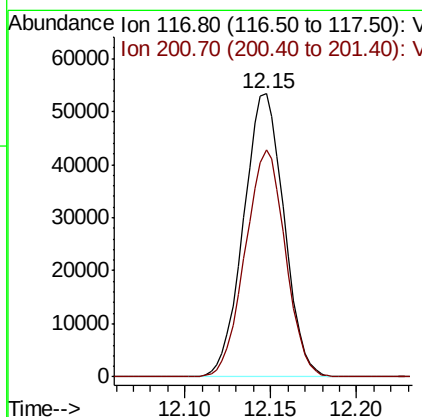
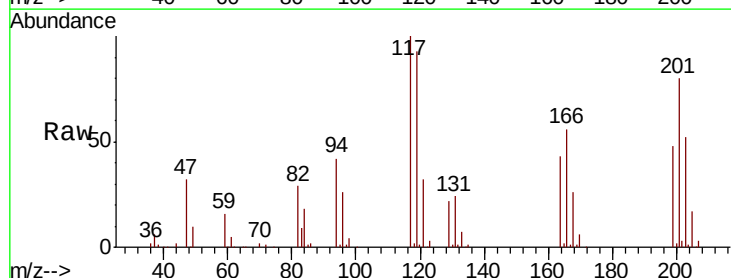
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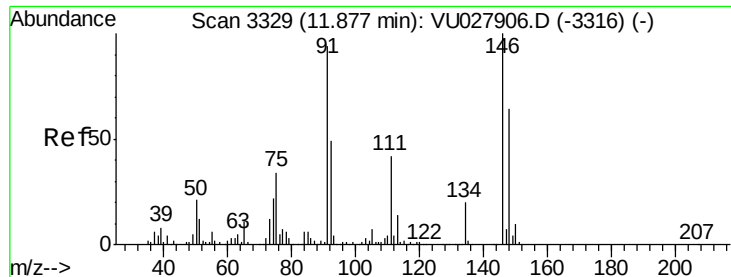
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#90
Hexachloroethane
Concen: 56.337 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.3	38.5	115.5





#91

1,2-Dichlorobenzene

Concen: 54.058 ug/l

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Instrument :

MSVOA_U

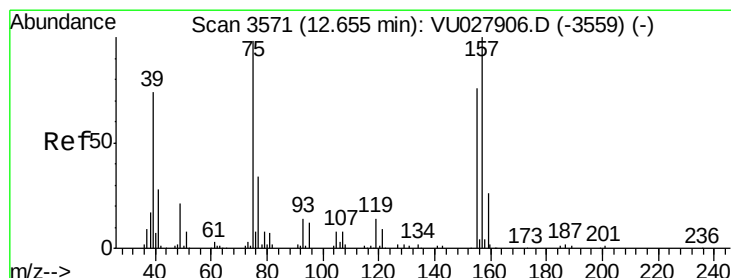
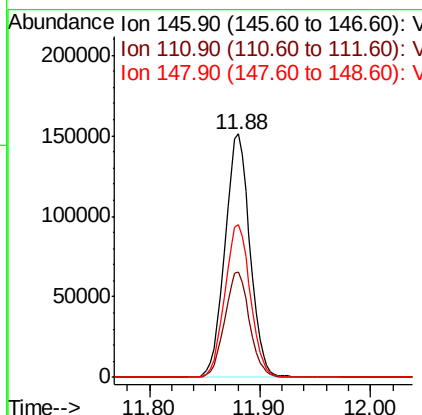
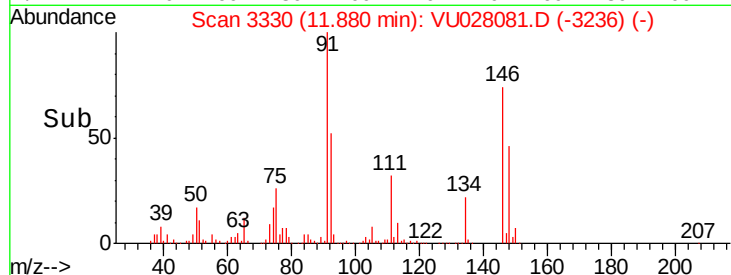
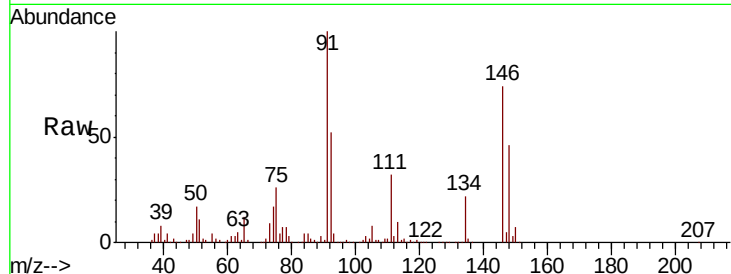
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	237440
Ion Ratio	Lower	Upper	
146	100		
111	43.0	21.3	64.0
148	63.9	31.8	95.3

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 57.063 ug/l

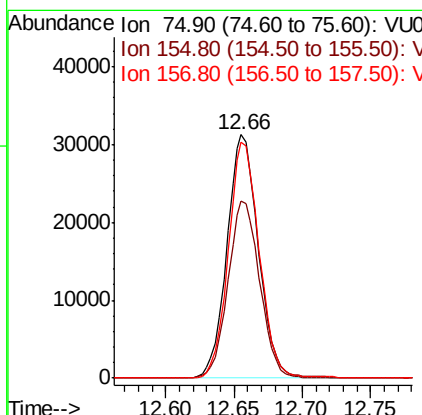
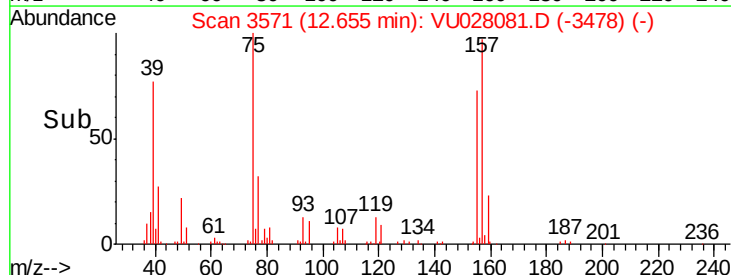
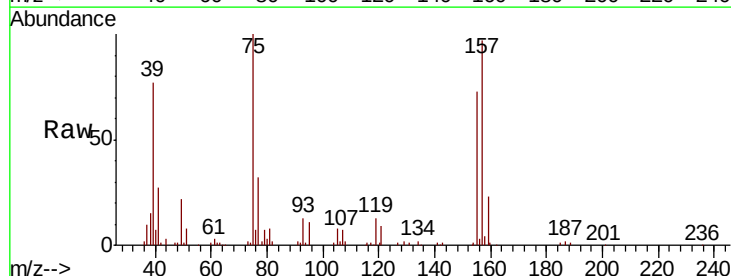
RT: 12.66 min Scan# 3571

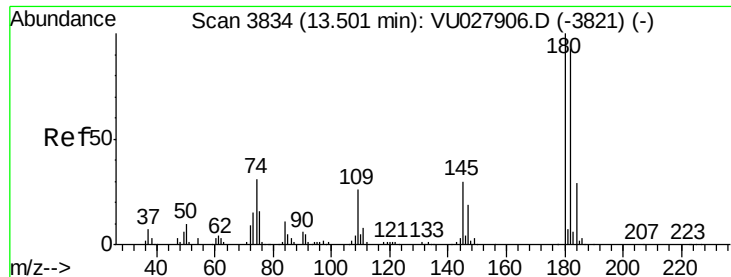
Delta R.T. 0.00 min

Lab File: VU028081.D

Acq: 13 Nov 2018 10:37

Tgt Ion:	75	Resp:	50011
Ion Ratio	Lower	Upper	
75	100		
155	73.0	39.8	119.3
157	95.0	50.6	151.9





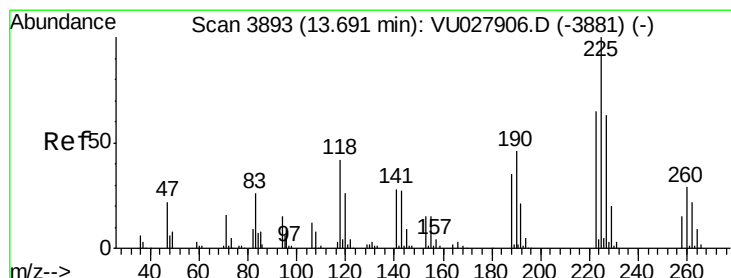
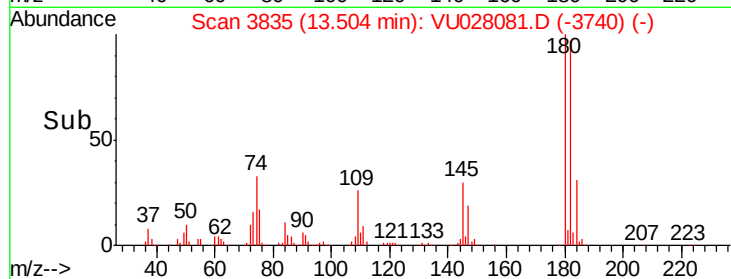
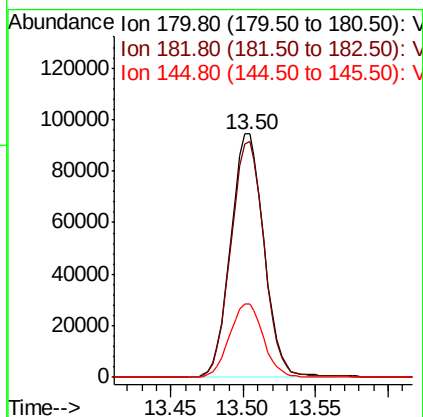
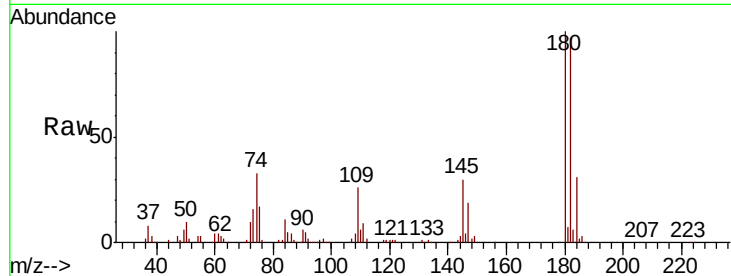
#93
 1,2,4-Trichlorobenzene
 Concen: 49.010 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	48.4	145.2
145	30.5	14.9	44.5

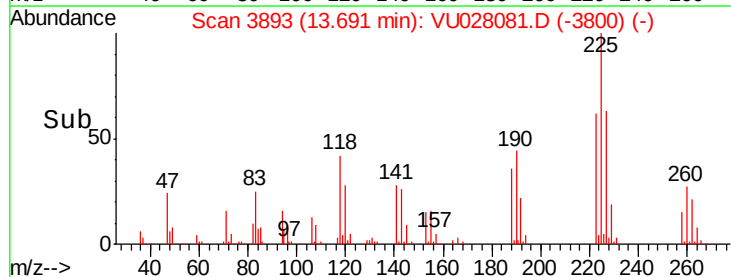
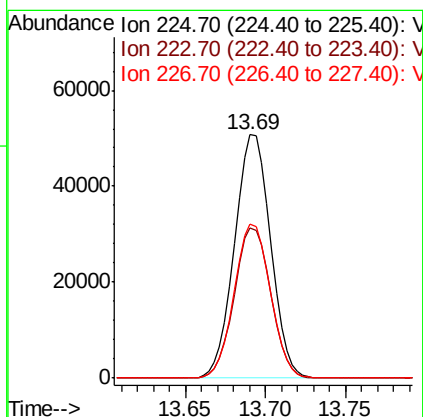
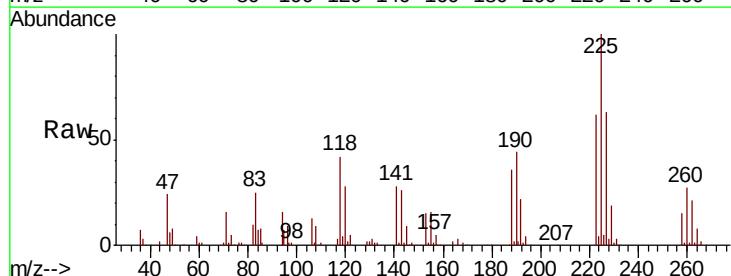
Manual Integrations
 APPROVED

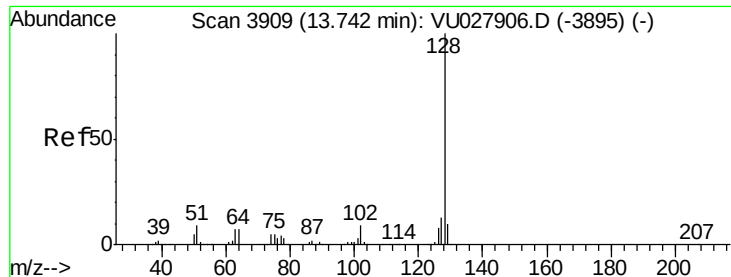
MMDadoda
 11/14/2018 9:34:15 AM



#94
 Hexachlorobutadiene
 Concen: 55.749 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU028081.D
 Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	32.2	96.6
227	63.4	32.5	97.4





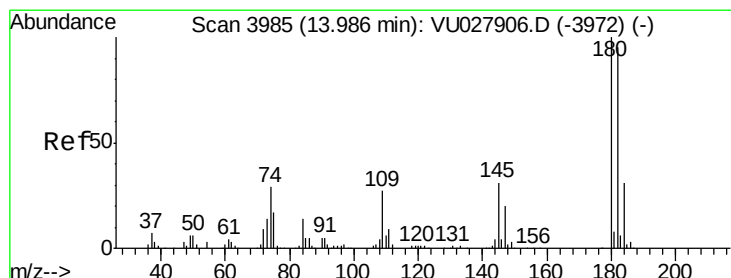
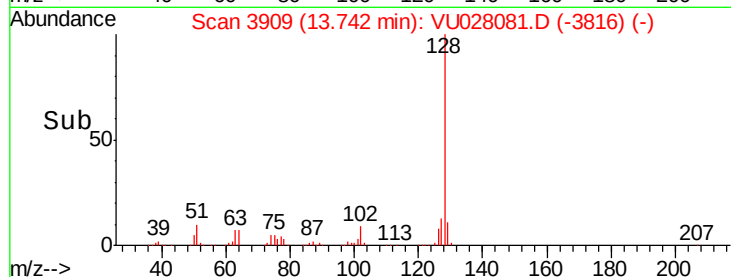
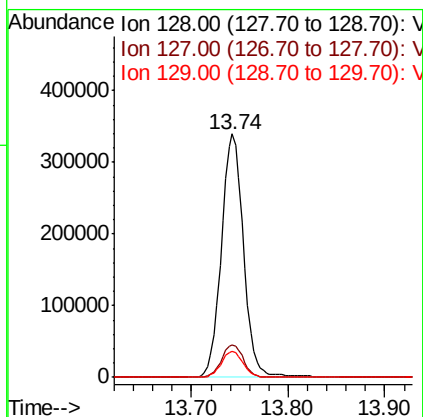
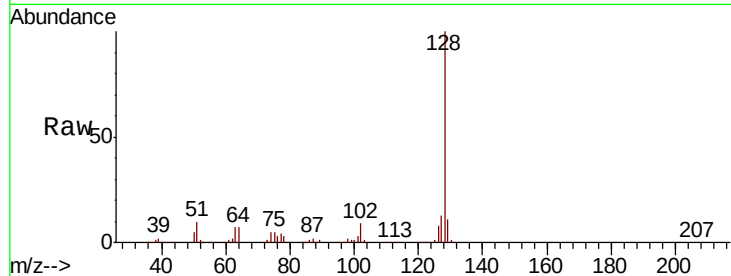
#95
Naphthalene
Concen: 49.414 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	10.4	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 53.459 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028081.D
Acq: 13 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.4	142.3
145	31.4	16.0	47.9

