

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\
 Data File : VL037130.D
 Acq On : 8 Jun 2021 13:41
 Operator : SY/AP
 Sample : M2614-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-1CDUP

Manual Integrations
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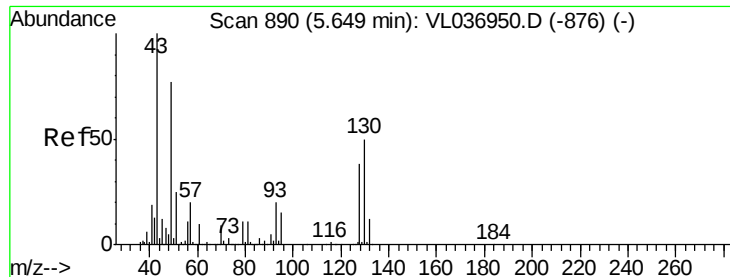
Quant Time: Jun 09 01:40:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1385468	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4073599	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3630243	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2694932	9.88	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	57369	0.244	ppbv	100
3) Chlorodifluoromethane	2.99	51	380131m	1.498	ppbv	
4) Chloromethane	3.14	50	47882	0.554	ppbv	93
9) Propene	3.01	41	157410	1.732	ppbv	87
11) Trichlorofluoromethane	3.95	101	58672	0.270	ppbv #	82
13) Ethanol	3.62	45	12552969	1035.145	ppbv	99
15) Acetone	3.85	43	1767629	12.456	ppbv	93
17) tert-Butyl alcohol	4.31	59	45792m	0.352	ppbv	
19) Isopropyl Alcohol	3.99	45	3263081	42.776	ppbv #	33
20) Methylene Chloride	4.34	84	1004913	13.211	ppbv	99
26) Hexane	5.68	57	644385	3.699	ppbv #	59
29) Chloroform	5.76	83	49947	0.203	ppbv	89
30) Cyclohexane	7.13	84	20265m	0.137	ppbv	
34) 2-Butanone	5.25	43	133796	0.902	ppbv	95
35) Carbon Tetrachloride	7.02	117	16837m	0.062	ppbv	
36) Benzene	6.89	78	932367	2.657	ppbv	97
44) 2,2,4-Trimethylpentane	7.87	57	75123m	0.125	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	57620m	0.235	ppbv	
52) Tetrachloroethene	11.22	164	4495m	0.032	ppbv	
53) Toluene	9.81	91	628760	1.506	ppbv	98
59) m/p-Xylene	12.97	91	103202m	0.244	ppbv	
61) Styrene	13.53	104	34353m	0.151	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	96192m	0.207	ppbv	
79) Naphthalene	22.20	128	56300m	0.154	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL037130.D

Acq: 8 Jun 2021 13:41

Instrument :

MSVOA_L

ClientSampleId :

SR-1CDUP

Tot Ion: 49 Resp: 1385468

Ion Ratio Lower Upper

49 100

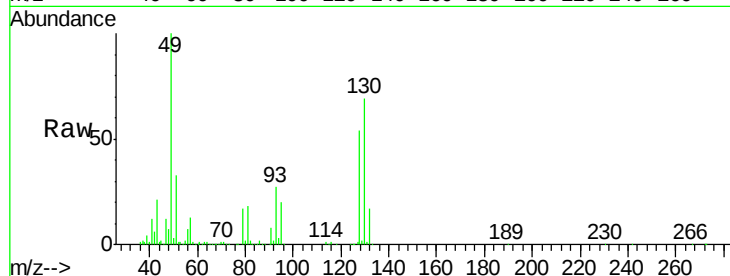
128 57.3 26.9 80.7

130 73.8 33.8 101.4

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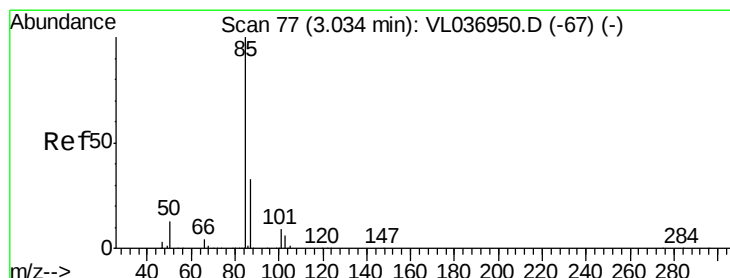
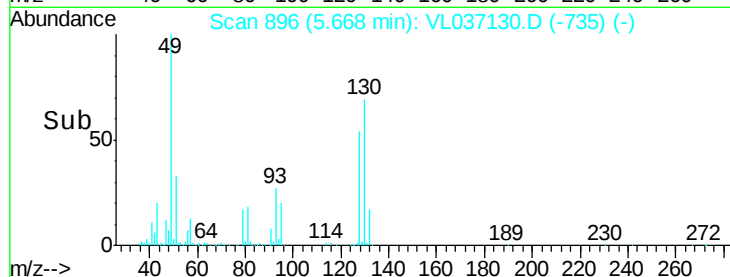
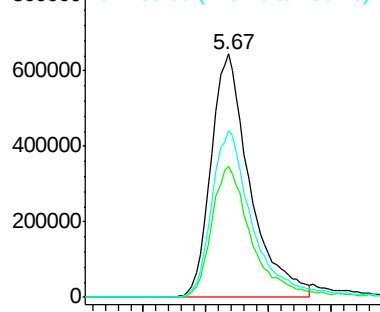
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.244 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.01 min

Lab File: VL037130.D

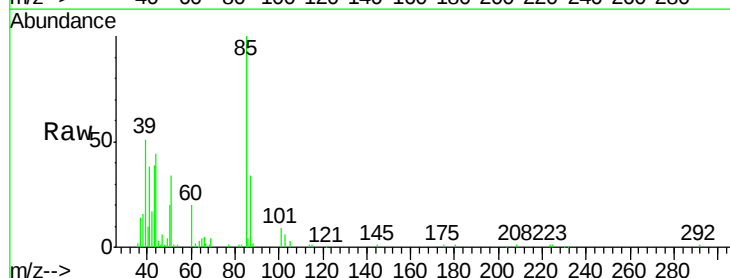
Acq: 8 Jun 2021 13:41

Tgt Ion: 85 Resp: 57369

Ion Ratio Lower Upper

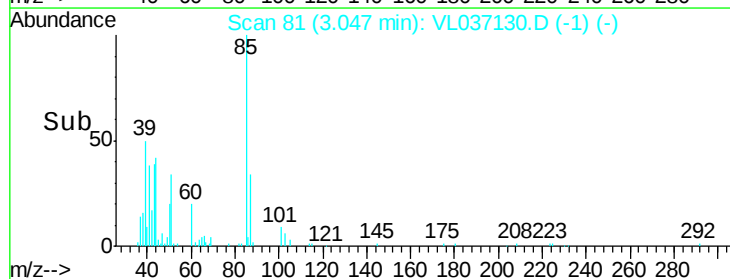
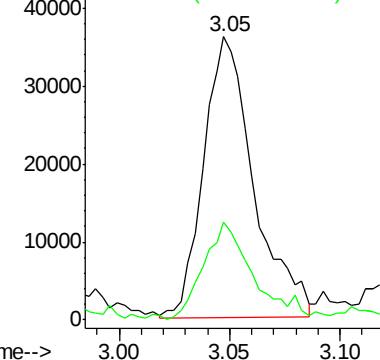
85 100

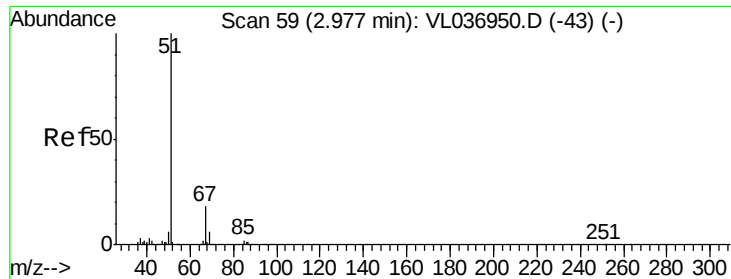
87 33.3 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

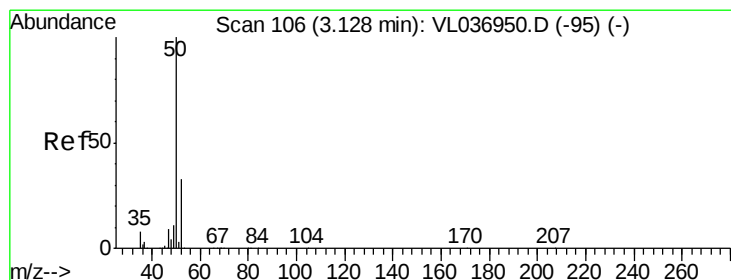
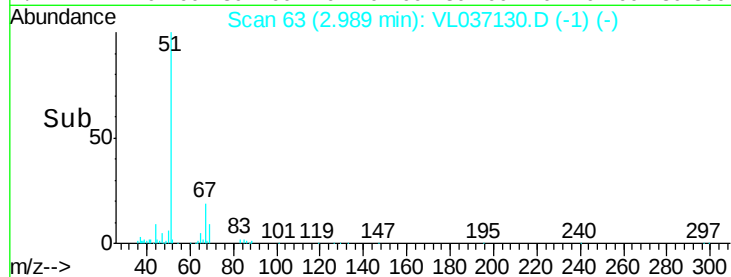
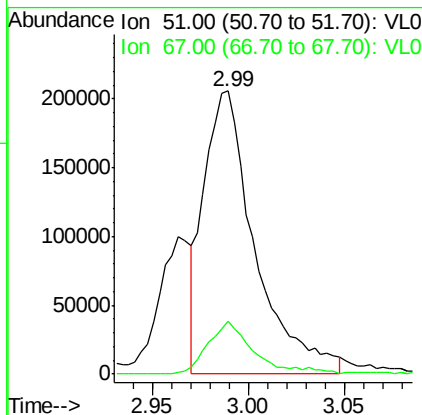
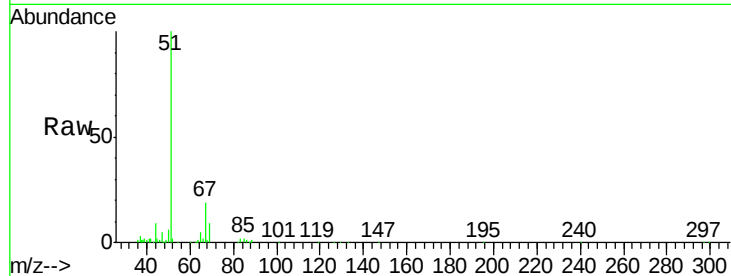
Chlorodifluoromethane
Concen: 1.498 ppbv
RT: 2.99 min Scan# 63
Delta R.T. 0.01 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Instrument :
MSVOA_L
ClientSampleId :
SR-1CDUP

Tot Ion	Ratio	Lower	Upper
51	100		
67	17.6	14.6	21.8

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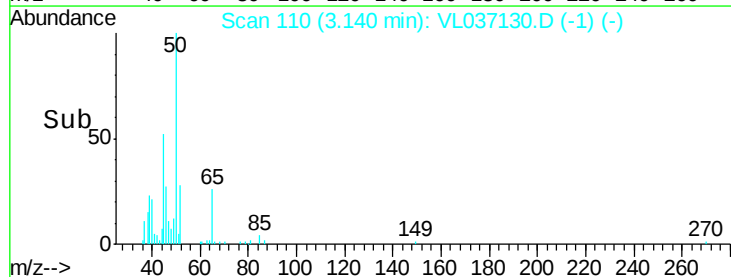
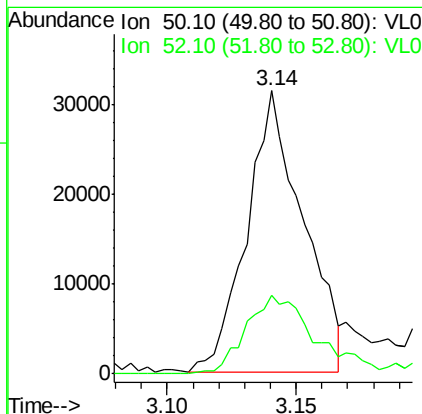
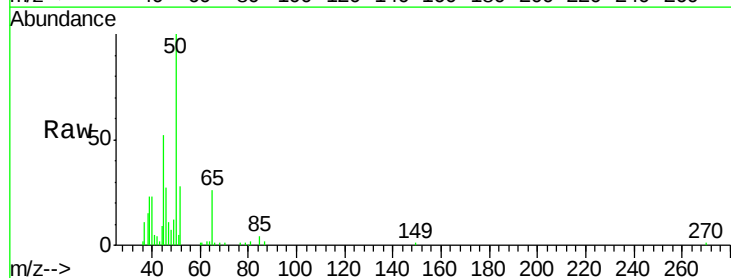
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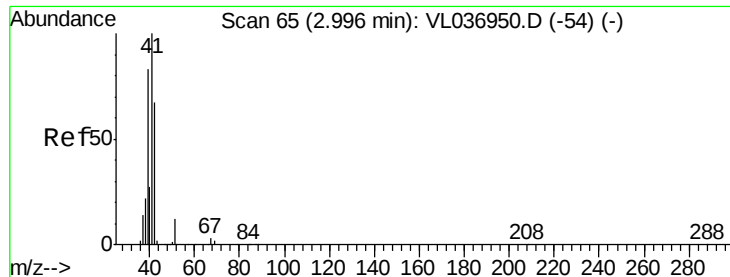


#4

Chloromethane
Concen: 0.554 ppbv
RT: 3.14 min Scan# 110
Delta R.T. 0.01 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Tgt Ion	Ratio	Lower	Upper
50	100		
52	28.6	26.1	39.1





#9

Propene

Concen: 1.732 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037130.D

Acq: 8 Jun 2021 13:41

Instrument :

MSVOA_L

ClientSampleId :

SR-1CDUP

Tot Ion: 41 Resp: 157410

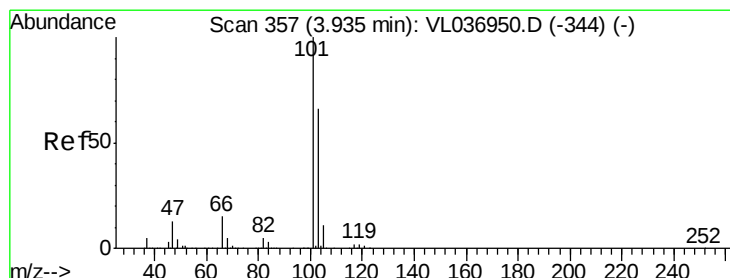
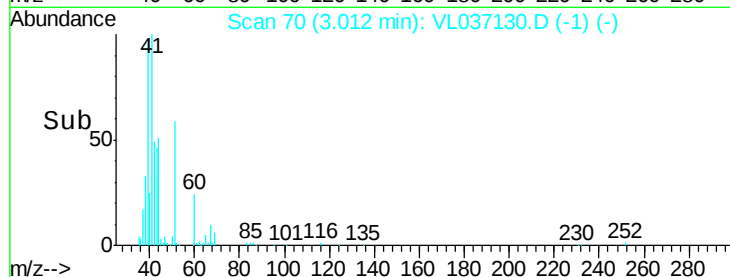
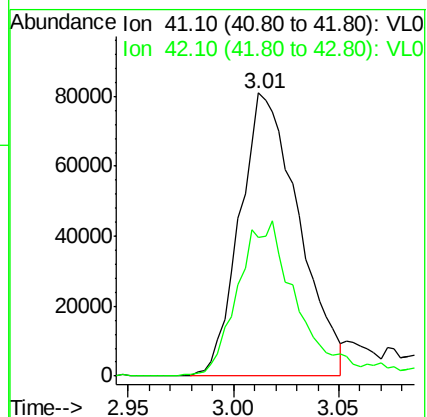
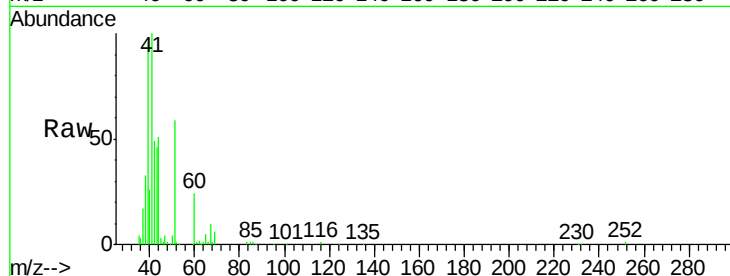
Ion Ratio Lower Upper

41 100

42 57.1 53.9 80.9

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#11

Trichlorofluoromethane

Concen: 0.270 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL037130.D

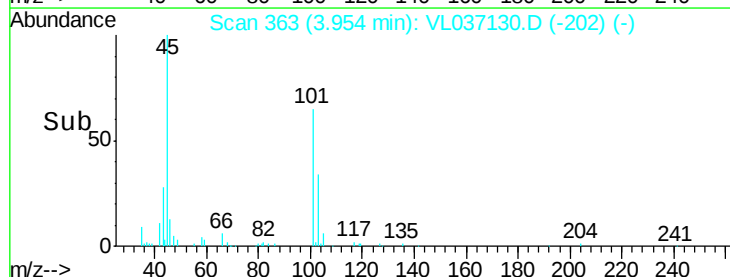
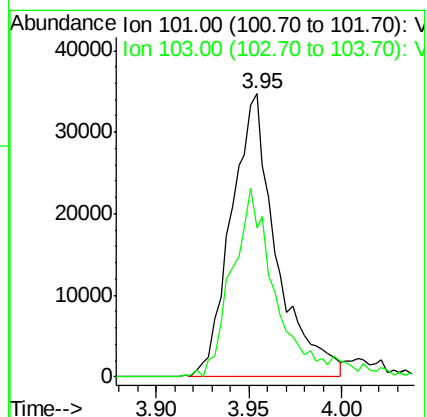
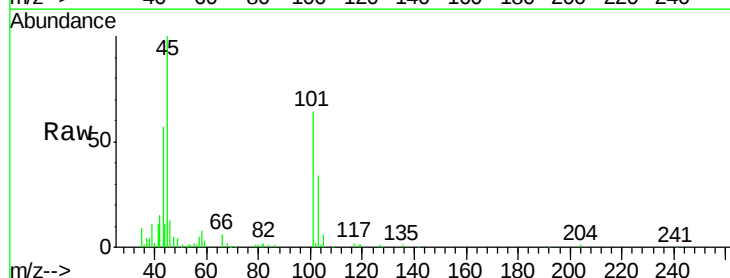
Acq: 8 Jun 2021 13:41

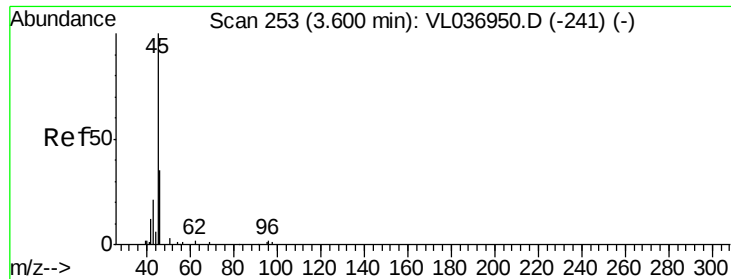
Tgt Ion: 101 Resp: 58672

Ion Ratio Lower Upper

101 100

103 51.7 52.6 79.0#





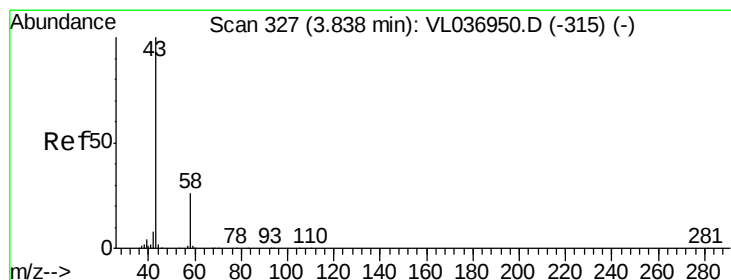
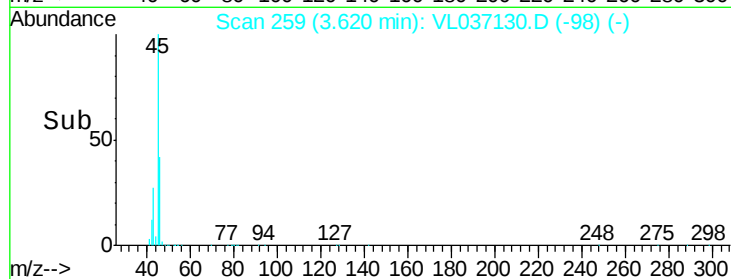
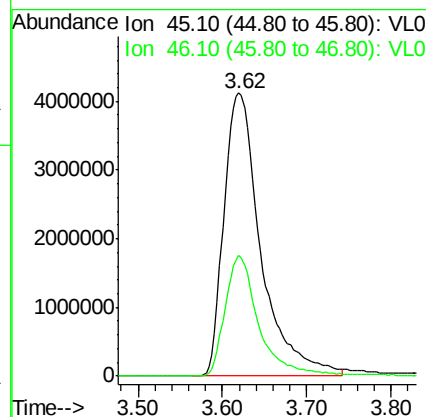
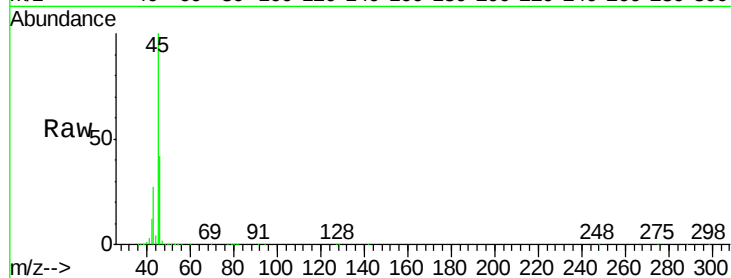
#13
Ethanol
Concen: 1035.145 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.02 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Instrument :
MSVOA_L
ClientSampleId :
SR-1CDUP

Tot Ion: 45 Resp:12552969
Ion Ratio Lower Upper
45 100
46 39.9 16.3 65.3

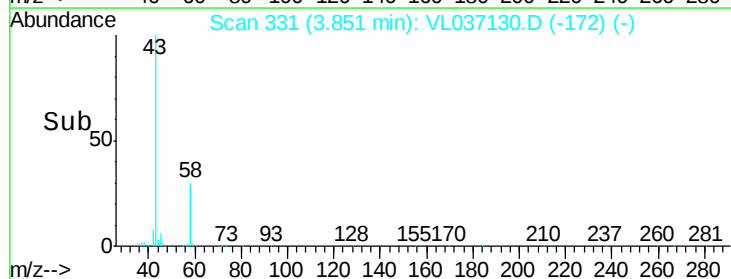
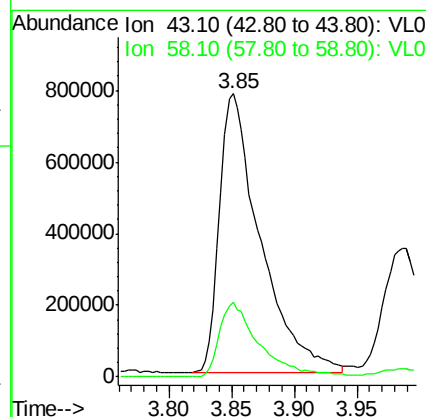
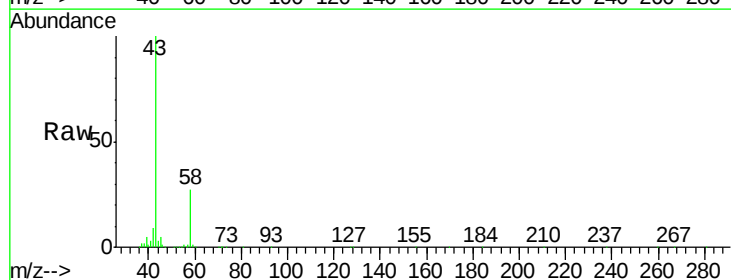
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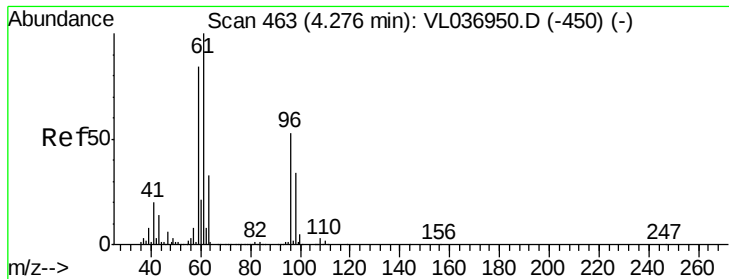
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#15
Acetone
Concen: 12.456 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Tgt Ion: 43 Resp: 1767629
Ion Ratio Lower Upper
43 100
58 26.3 24.0 36.0





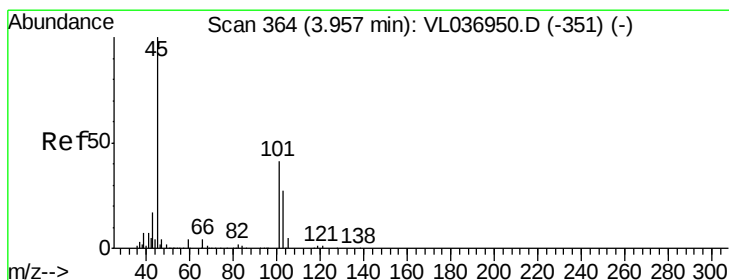
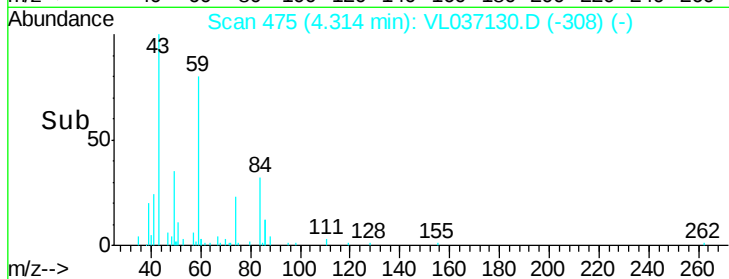
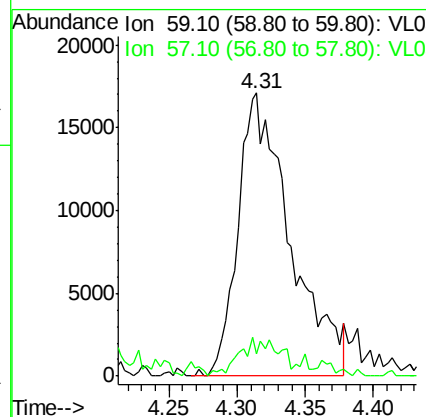
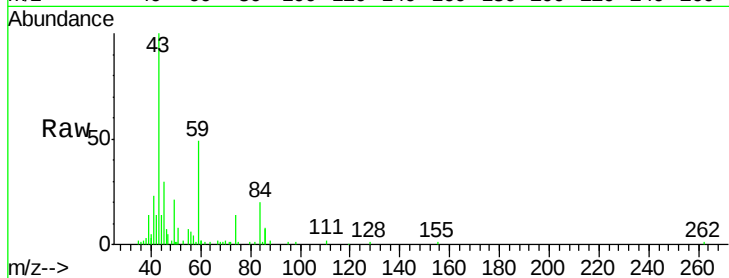
#17
tert-Butyl alcohol
Concen: 0.352 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.04 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Instrument :
MSVOA_L
ClientSampleId :
SR-1CDUP

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#

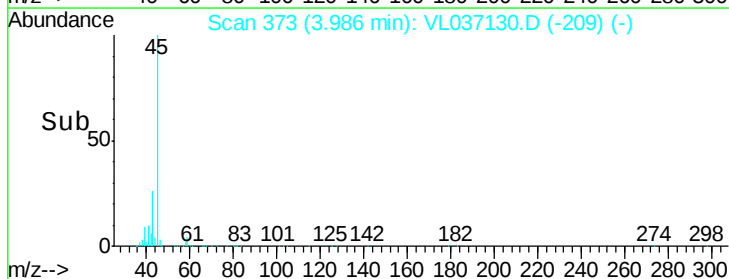
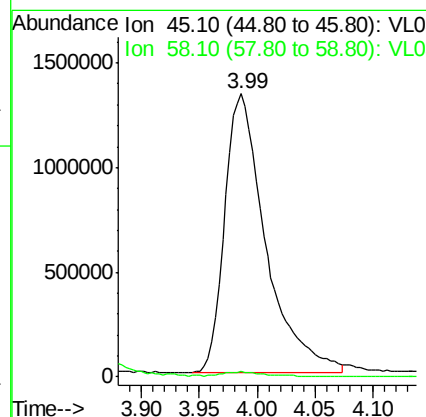
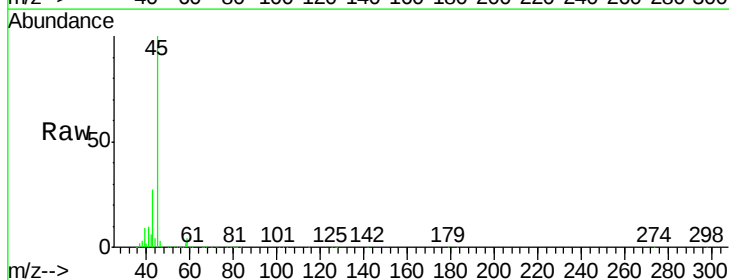
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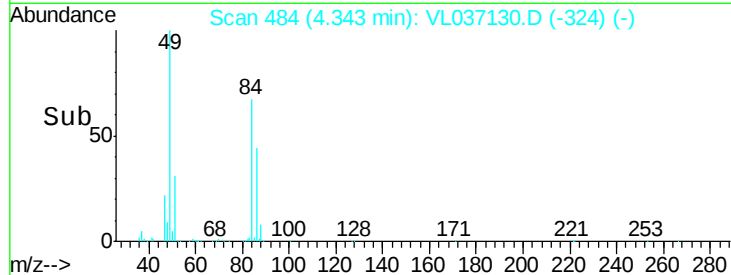
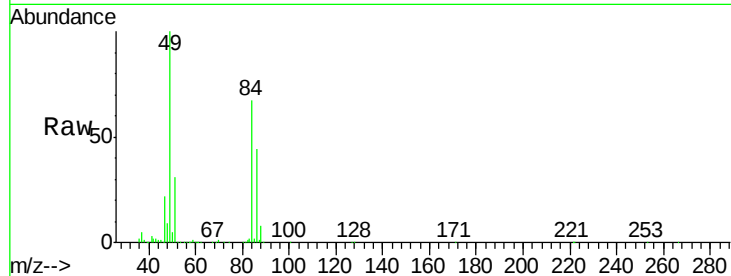
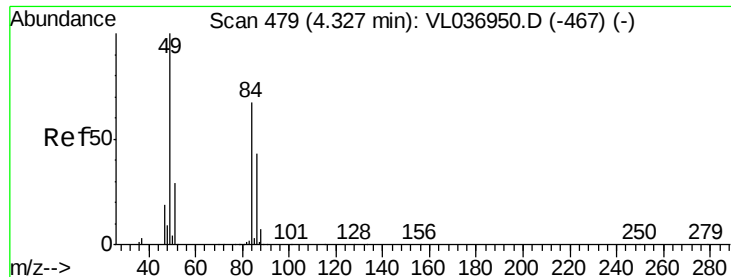
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#19
Isopropyl Alcohol
Concen: 42.776 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.03 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

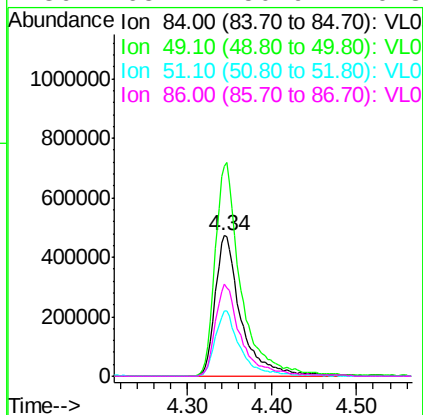
Tgt Ion	Ratio	Lower	Upper
45	100		
58	2.2	37.2	55.8#





#20
Methvlene Chloride
Concen: 13.211 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.02 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

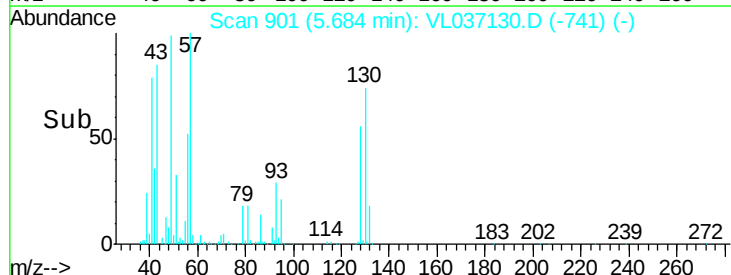
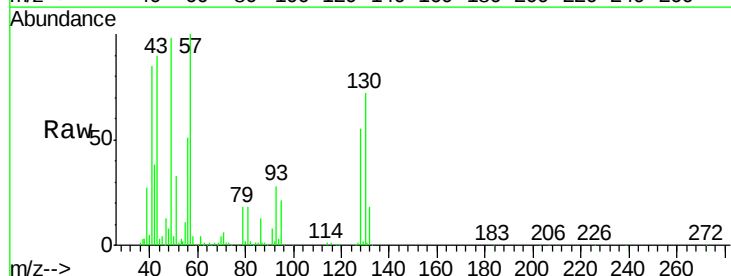
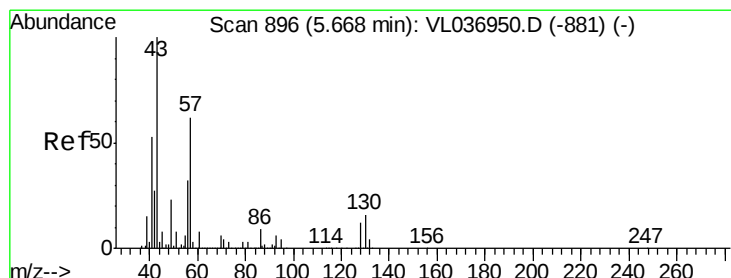
Tot Ion	Ratio	Lower	Upper
84	100		
49	149.5	119.8	179.6
51	46.6	35.1	52.7
86	65.7	50.9	76.3



Instrument :
MSVOA_L
ClientSampleId :
SR-1CDUP

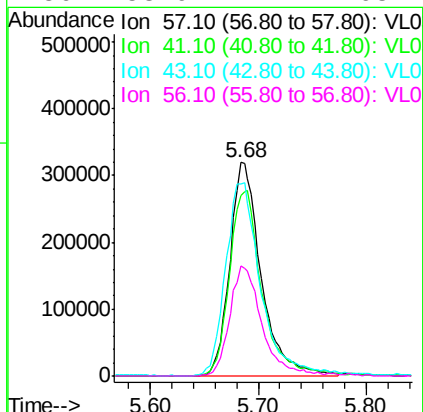
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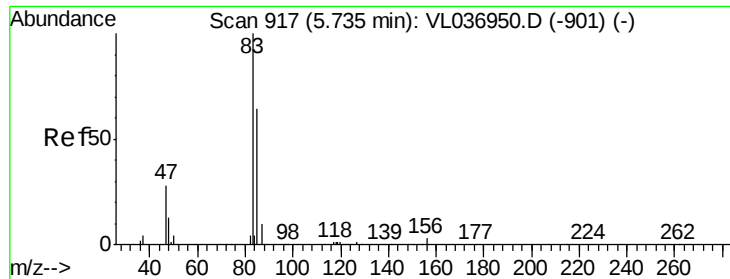
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#26
Hexane
Concen: 3.699 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.02 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.3	70.5	105.7
43	102.9	165.8	248.8#
56	53.9	42.2	63.4





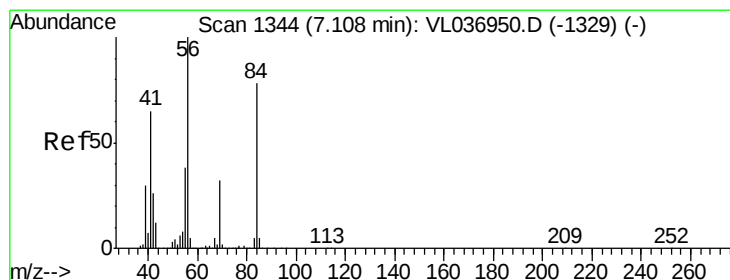
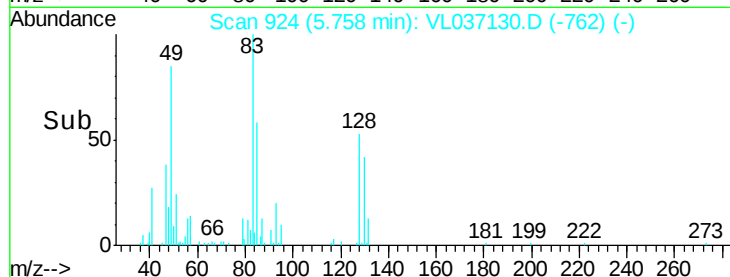
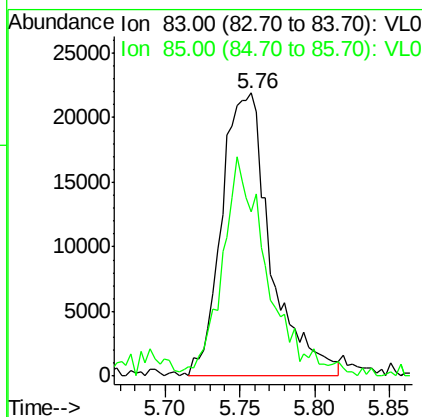
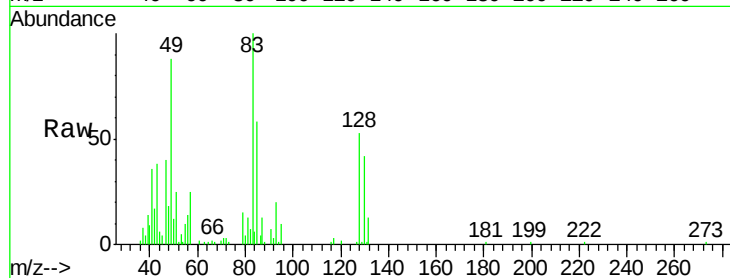
#29
Chloroform
Concen: 0.203 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.02 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Instrument :
MSVOA_L
ClientSampleId :
SR-1CDUP

Tot Ion	83	Resp	49947
Ion Ratio	Lower	Upper	
83	100		
85	54.9	51.1	76.7

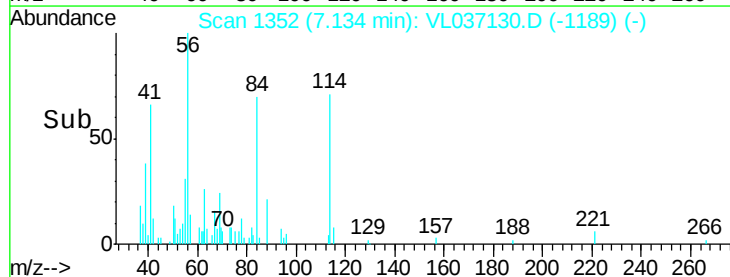
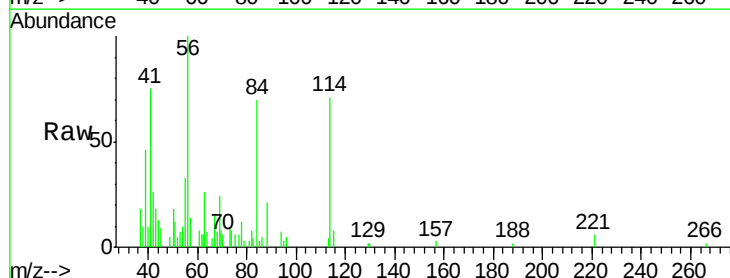
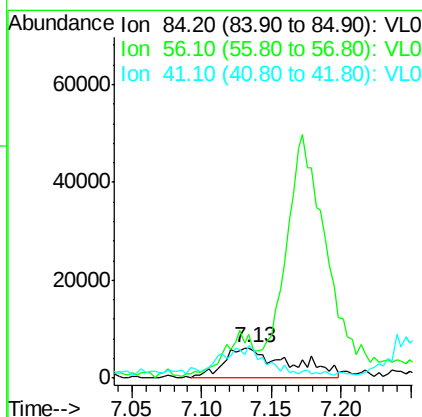
Manual Integrations
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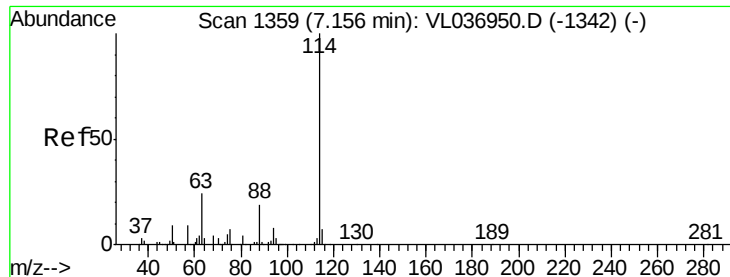
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#30
Cyclohexane
Concen: 0.137 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. 0.03 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Tgt Ion	84	Resp	20265
Ion Ratio	Lower	Upper	
84	100		
56	0.0	107.9	161.9#
41	64.9	65.5	98.3#





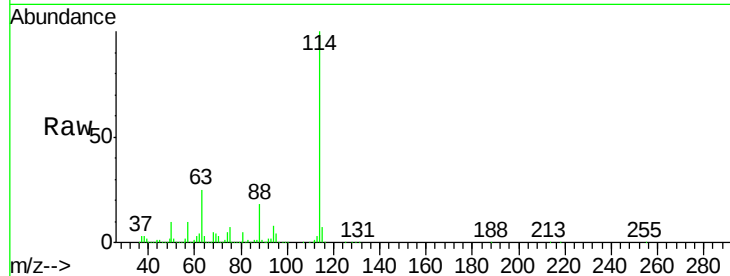
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.02 min
 Lab File: VL037130.D
 Acq: 8 Jun 2021 13:41

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-1CDUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.6	29.4
88	17.8	14.6	21.8

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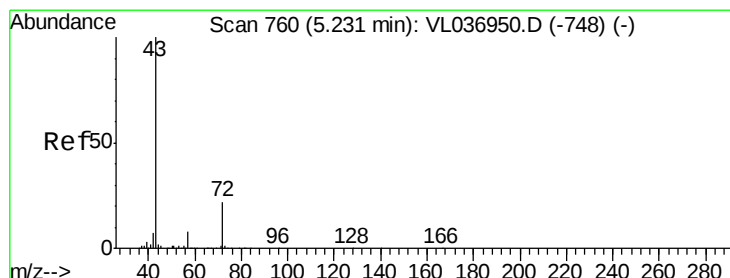
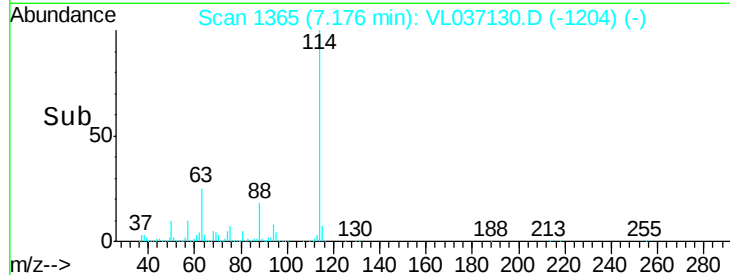
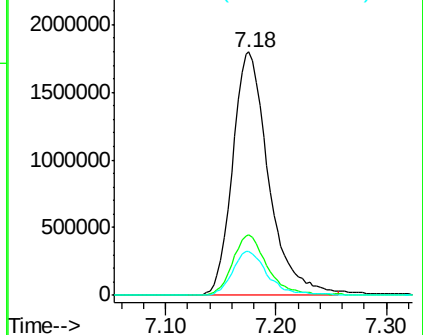
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Abundance Ion 114.10 (113.80 to 114.80): VL037130.D (-1204) (-)

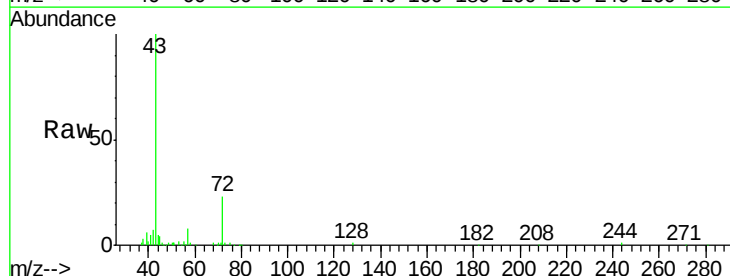
Ion 63.10 (62.80 to 63.80): VL037130.D (-1204) (-)

Ion 88.10 (87.80 to 88.80): VL037130.D (-1204) (-)



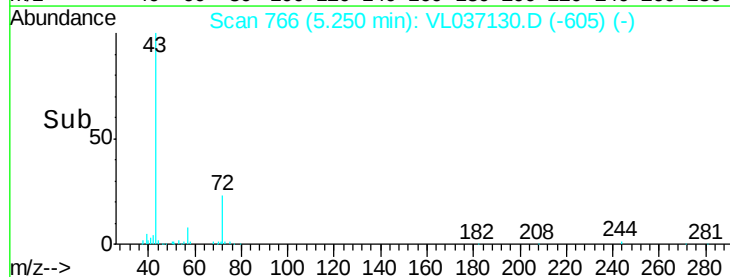
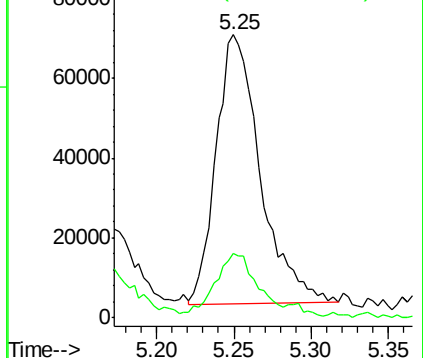
#34
 2-Butanone
 Concen: 0.902 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.02 min
 Lab File: VL037130.D
 Acq: 8 Jun 2021 13:41

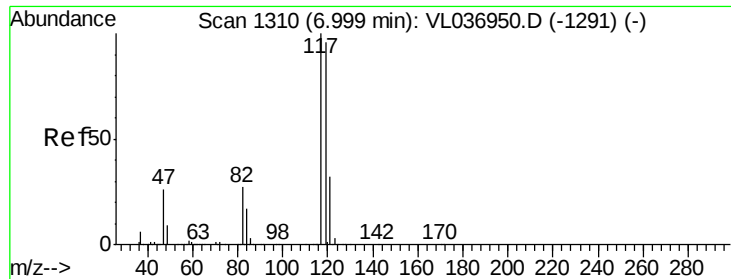
Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.3	19.0	28.4



Abundance Ion 43.10 (42.80 to 43.80): VL037130.D (-605) (-)

Ion 72.10 (71.80 to 72.80): VL037130.D (-605) (-)





#35

Carbon Tetrachloride

Concen: 0.062 ppbv m

RT: 7.02 min Scan# 1317

Delta R.T. 0.02 min

Lab File: VL037130.D

Acq: 8 Jun 2021 13:41

Instrument :

MSVOA_L

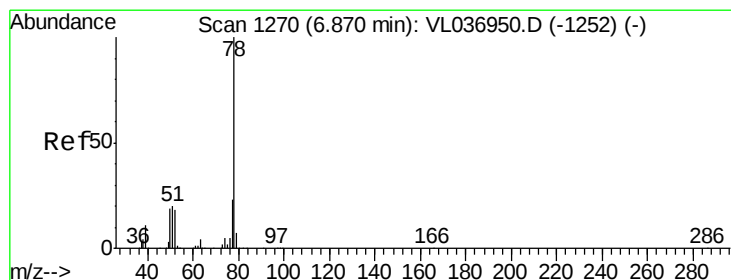
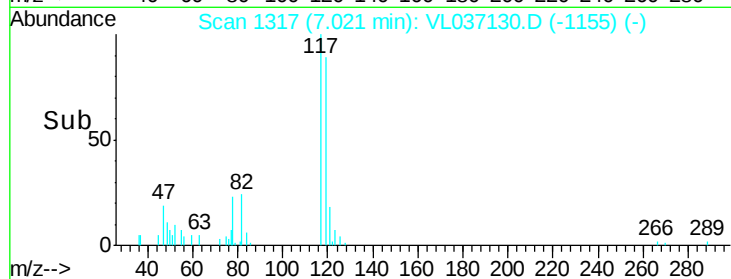
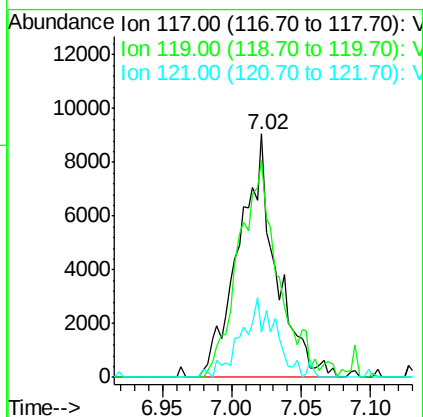
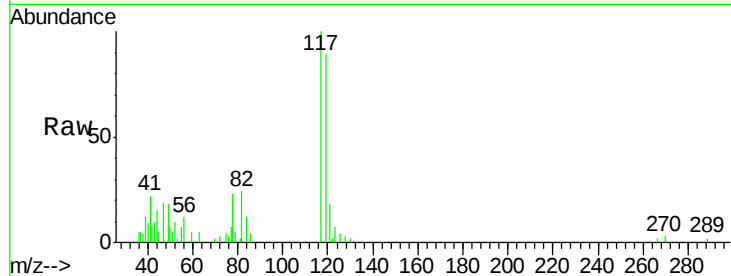
ClientSampleId :

SR-1CDUP

Tot Ion:	117	Resp:	16837
Ion Ratio	Lower	Upper	
117	100		
119	89.1	76.6	114.8
121	18.3	25.8	38.6#

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#36

Benzene

Concen: 2.657 ppbv

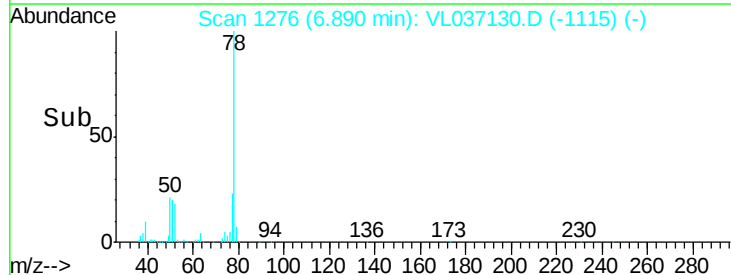
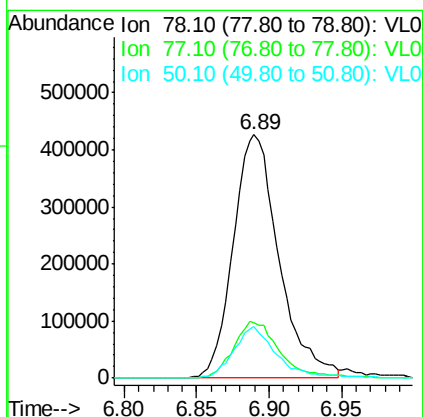
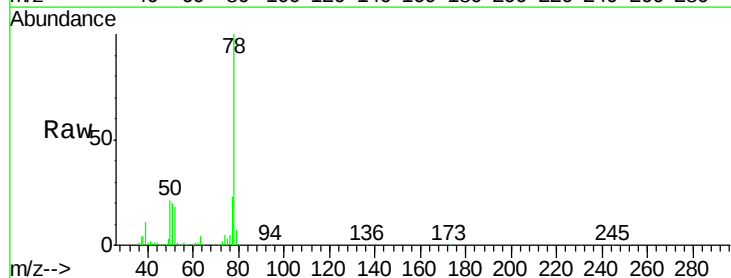
RT: 6.89 min Scan# 1276

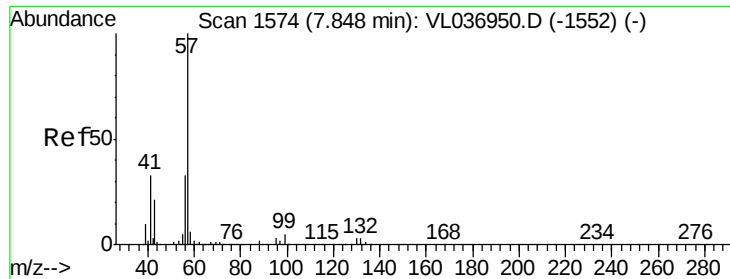
Delta R.T. 0.02 min

Lab File: VL037130.D

Acq: 8 Jun 2021 13:41

Tgt Ion:	78	Resp:	932367
Ion Ratio	Lower	Upper	
78	100		
77	22.5	18.6	28.0
50	20.9	15.0	22.4





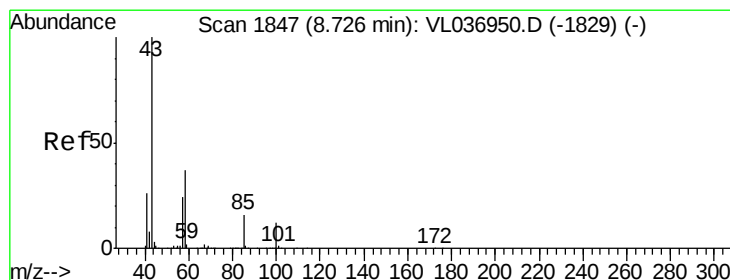
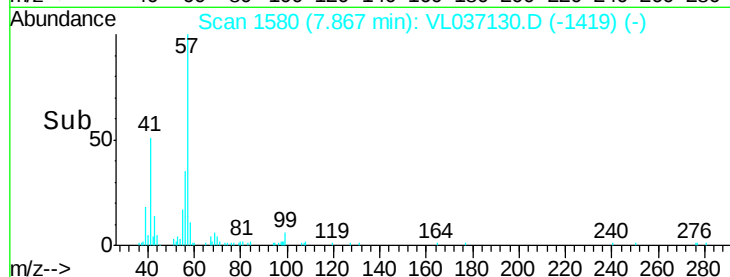
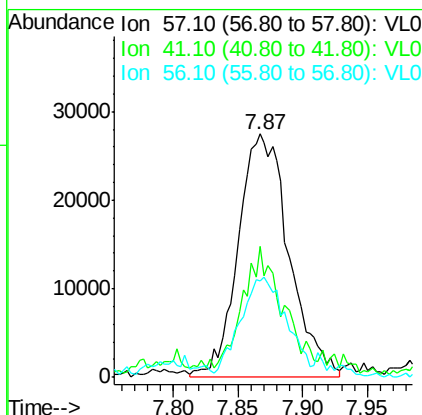
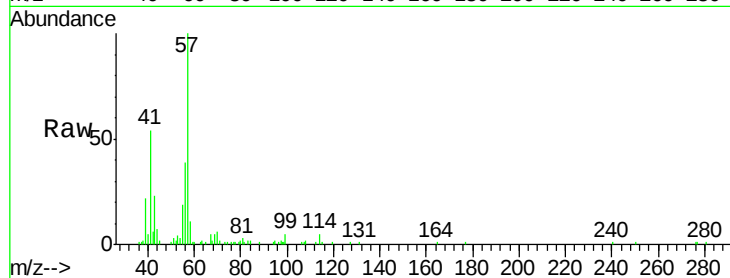
#44
 2,2,4-Trimethylpentane
 Concen: 0.125 ppbv m
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VL037130.D
 Acq: 8 Jun 2021 13:41

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-1CDUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	47.9	27.0	40.4#
56	40.8	25.4	38.2#

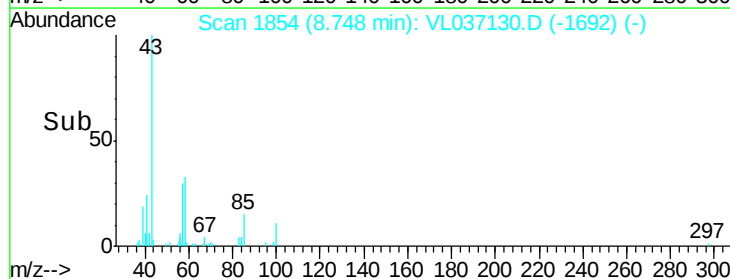
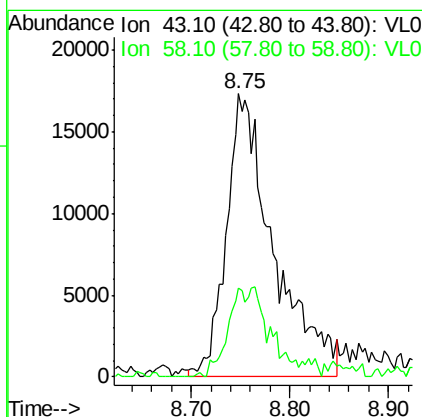
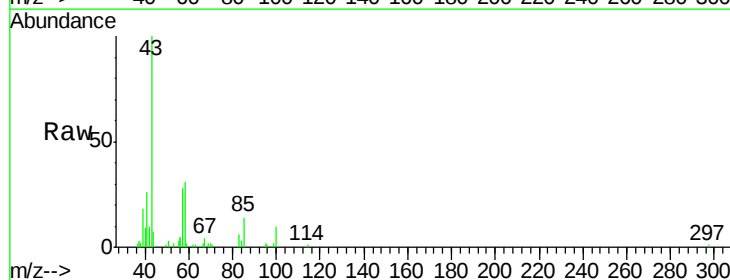
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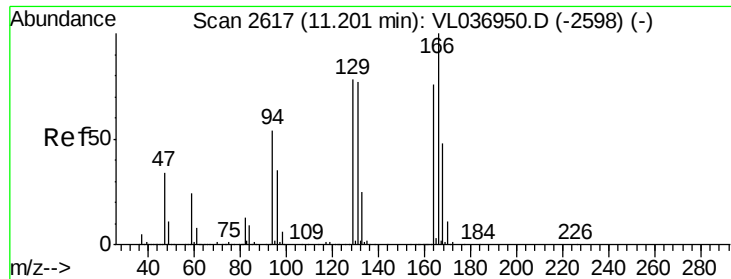
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#50
 4-Methyl-2-Pentanone
 Concen: 0.235 ppbv m
 RT: 8.75 min Scan# 1854
 Delta R.T. 0.02 min
 Lab File: VL037130.D
 Acq: 8 Jun 2021 13:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#





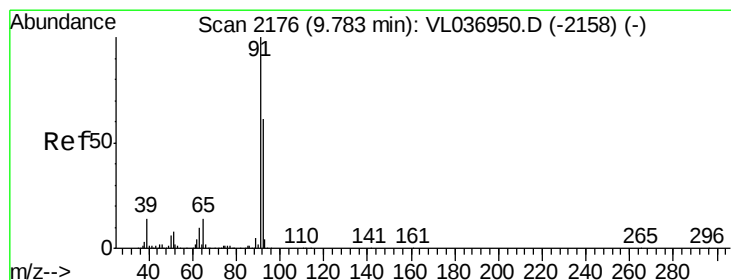
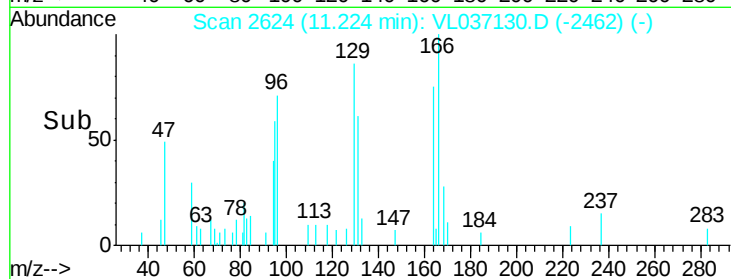
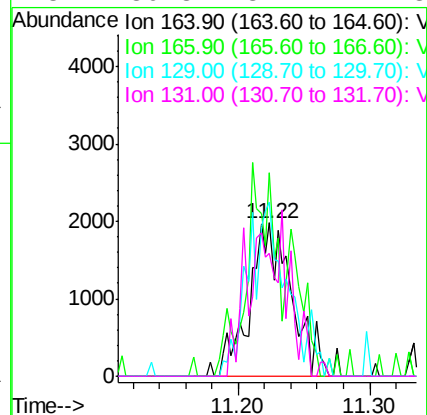
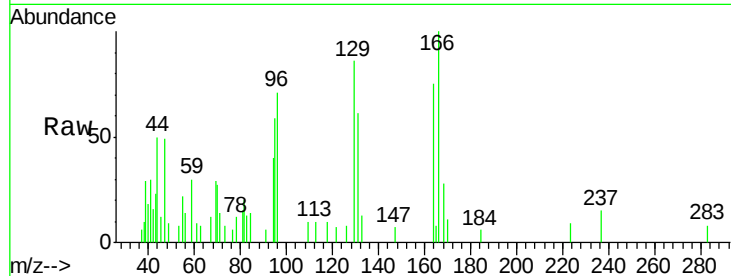
#52
Tetrachloroethene
Concen: 0.032 ppbv m
RT: 11.22 min Scan# 2624
Delta R.T. 0.02 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Instrument :
MSVOA_L
ClientSampleId :
SR-1CDUP

Tot Ion	Ratio	Lower	Upper
164	100		
166	132.5	105.5	158.3
129	113.3	81.8	122.8
131	80.3	81.2	121.8

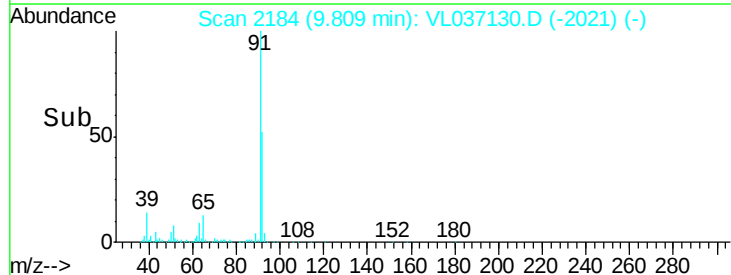
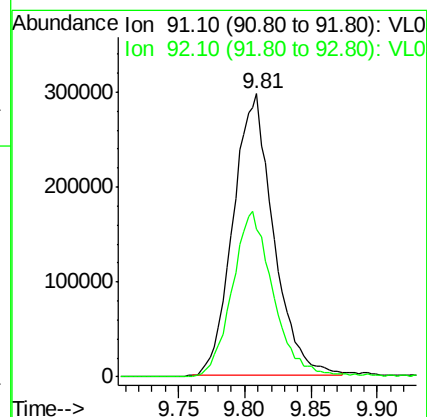
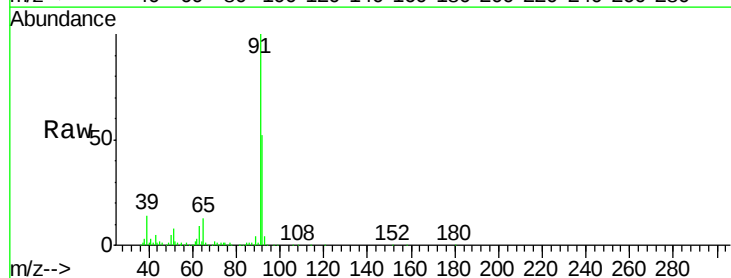
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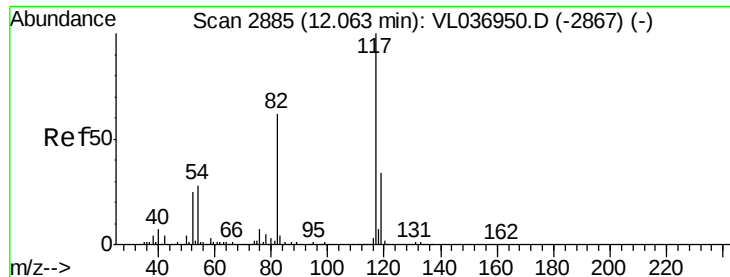
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#53
Toluene
Concen: 1.506 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. 0.03 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.3	49.5	74.3





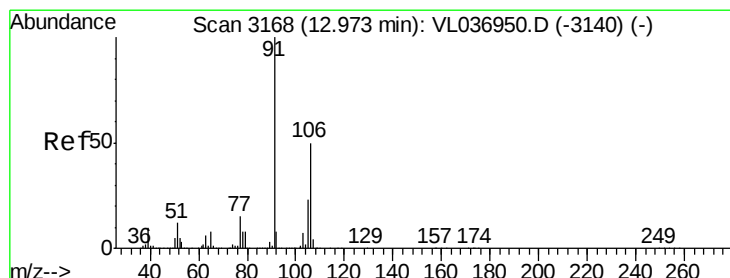
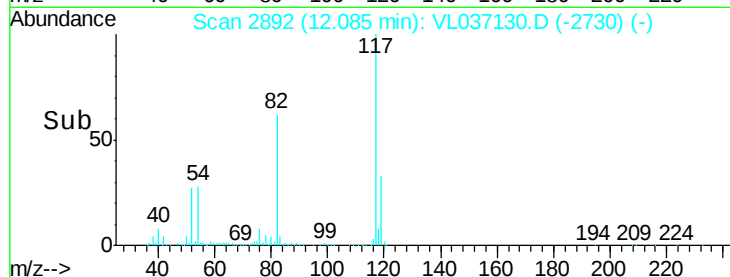
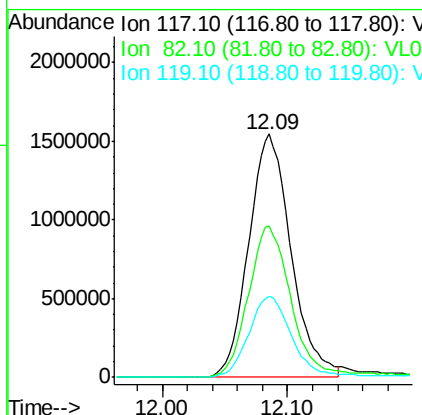
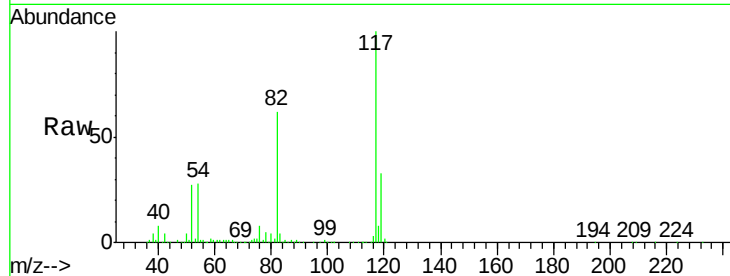
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. 0.02 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Instrument :
MSVOA_L
ClientSampleId :
SR-1CDUP

Tot Ion:117 Resp: 3630243
Ion Ratio Lower Upper
117 100
82 65.7 52.6 79.0
119 34.8 46.6 70.0#

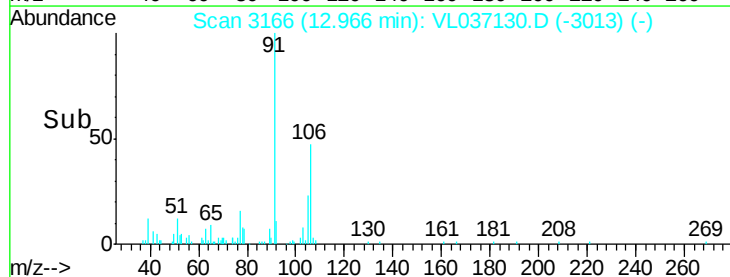
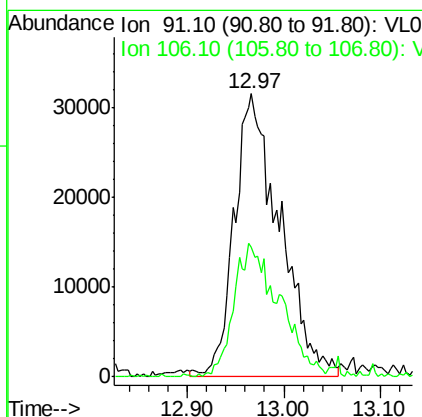
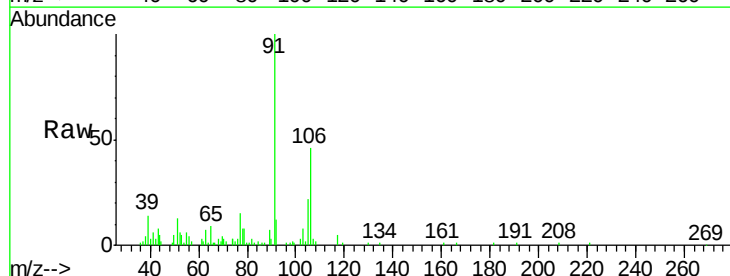
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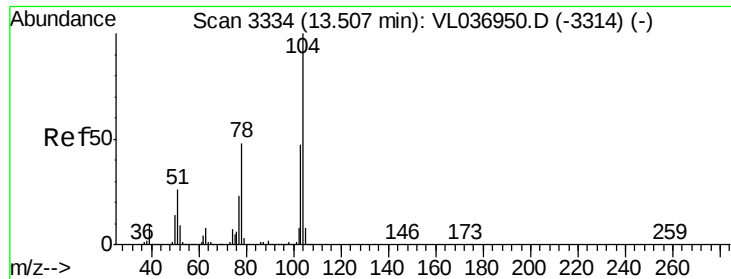
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#59
m/p-Xylene
Concen: 0.244 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.01 min
Lab File: VL037130.D
Acq: 8 Jun 2021 13:41

Tgt Ion: 91 Resp: 103202
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#





#61

Stvrene

Concen: 0.151 ppbv m

RT: 13.53 min Scan# 3342

Delta R.T. 0.03 min

Lab File: VL037130.D

Acq: 8 Jun 2021 13:41

Instrument :

MSVOA_L

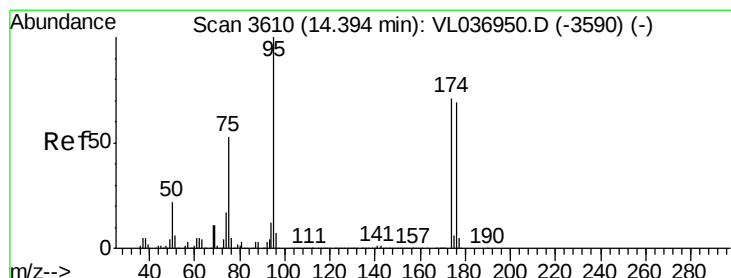
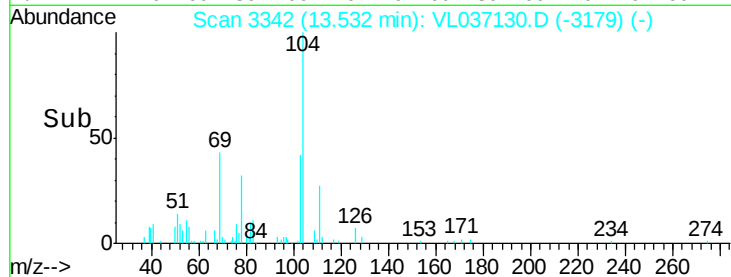
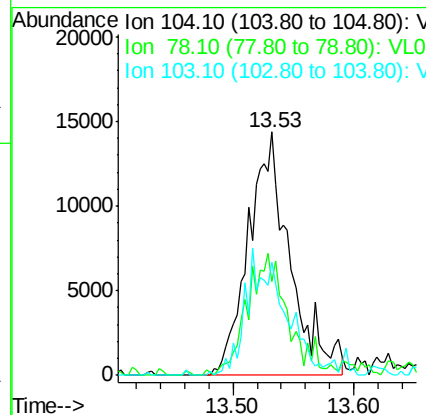
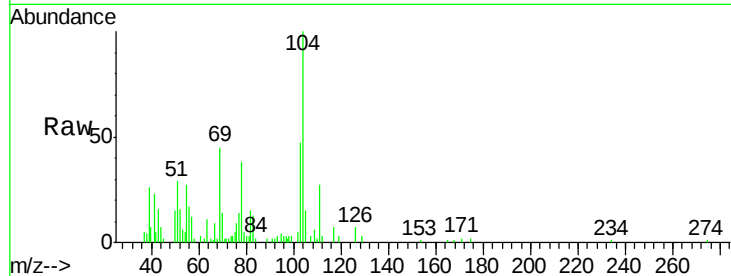
ClientSampleId :

SR-1CDUP

Tot Ion:	104	Resp:	34353
Ion Ratio	Lower	Upper	
104	100		
78	49.2	39.0	58.6
103	0.0	38.0	57.0#

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.882 ppbv

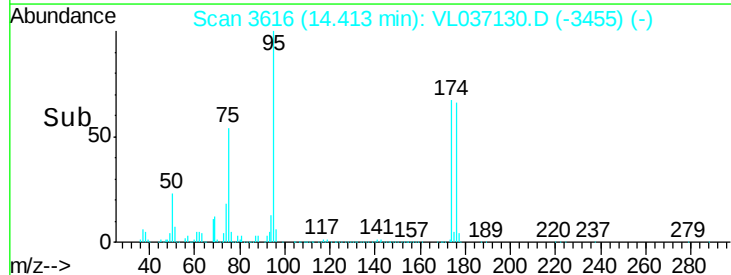
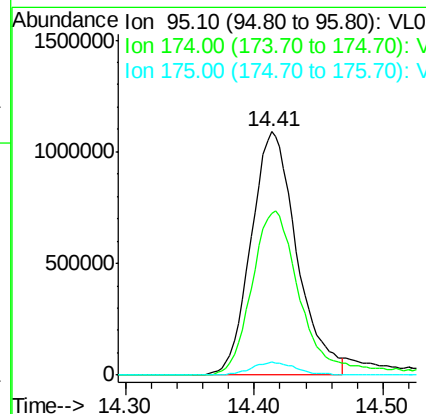
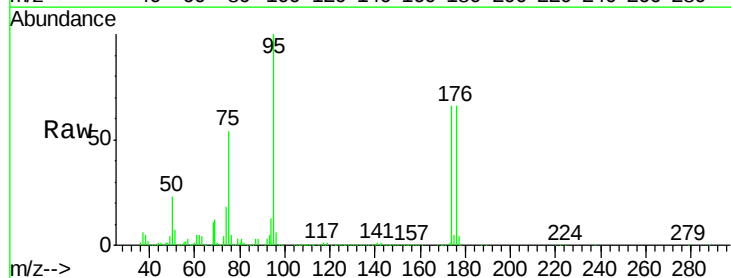
RT: 14.41 min Scan# 3616

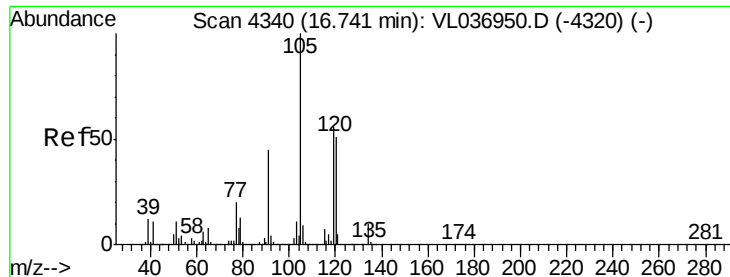
Delta R.T. 0.02 min

Lab File: VL037130.D

Acq: 8 Jun 2021 13:41

Tgt Ion:	95	Resp:	2694932
Ion Ratio	Lower	Upper	
95	100		
174	75.2	58.4	87.6
175	5.3	4.4	6.6





#74

1,2,4-Trimethylbenzene

Concen: 0.207 ppbv m

RT: 16.76 min Scan# 4346

Delta R.T. 0.02 min

Lab File: VL037130.D

Acq: 8 Jun 2021 13:41

Instrument :

MSVOA_L

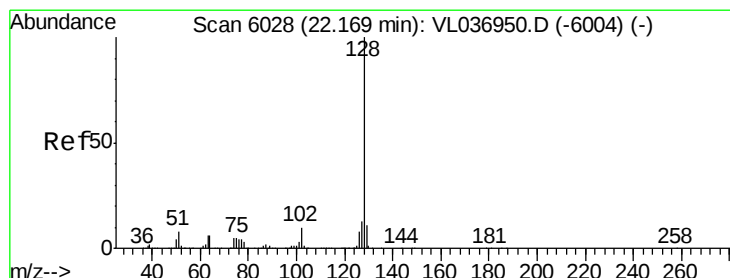
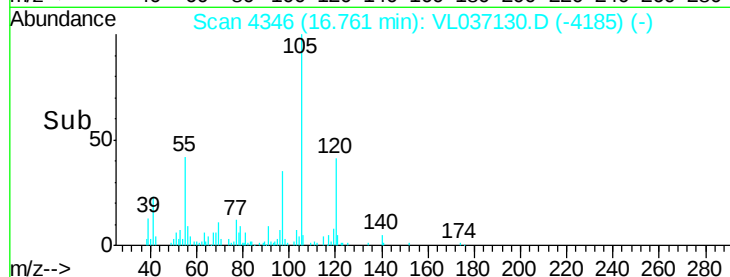
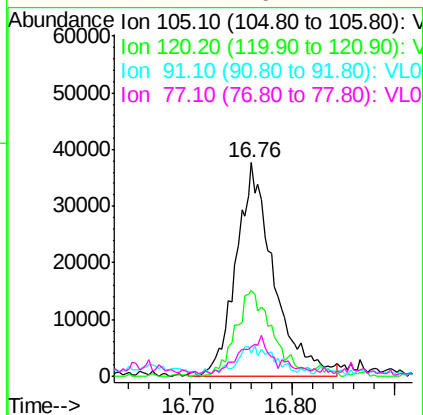
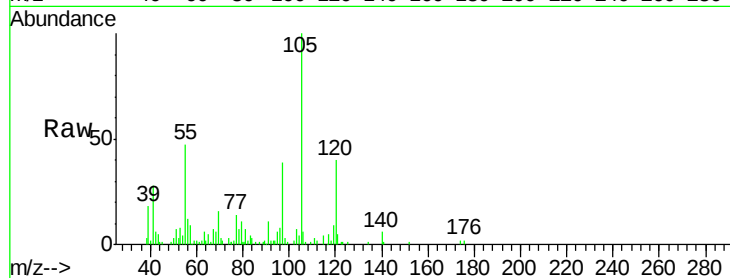
ClientSampleId :

SR-1CDUP

Tot Ion:	105	Resp:	96192
Ion Ratio	Lower	Upper	
105	100		
120	40.3	40.6	61.0#
91	10.9	37.4	56.0#
77	14.1	16.2	24.4#

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#79

Naphthalene

Concen: 0.154 ppbv m

RT: 22.20 min Scan# 6037

Delta R.T. 0.03 min

Lab File: VL037130.D

Acq: 8 Jun 2021 13:41

Tgt Ion:	128	Resp:	56300
Ion Ratio	Lower	Upper	
128	100		
127	11.2	10.4	15.6
129	9.4	9.0	13.6

