

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
 Data File : VL037687.D
 Acq On : 27 Sep 2021 19:21
 Operator : SY/AP
 Sample : M3896-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:05:16 AM

Quant Time: Sep 28 20:32:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1426985	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4279432	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	3748154	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2696184	9.95	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.02	41	58936	0.621	ppbv	97
10) Heptane	8.13	43	101169	0.457	ppbv	92
11) Trichlorofluoromethane	3.96	101	44956m	0.217	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.50	101	54504m	0.356	ppbv	
13) Ethanol	3.61	45	139646m	15.037	ppbv	
15) Acetone	3.85	43	2697319	18.193	ppbv	97
18) 1,1-Dichloroethene	4.30	96	87007	1.221	ppbv	85
19) Isopropyl Alcohol	3.97	45	734960	9.111	ppbv #	1
20) Methylene Chloride	4.35	84	378255	5.344	ppbv	93
24) 1,1-Dichloroethane	5.02	63	611990	4.164	ppbv	98
26) Hexane	5.70	57	434584	2.548	ppbv #	33
30) Cyclohexane	7.13	84	20993m	0.144	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	2100148	9.057	ppbv	99
34) 2-Butanone	5.25	43	621687	3.575	ppbv	96
36) Benzene	6.90	78	59082	0.166	ppbv #	90
41) Tetrahydrofuran	6.07	42	180268	2.205	ppbv	97
50) 4-Methyl-2-Pentanone	8.77	43	31747m	0.144	ppbv	
51) 2-Hexanone	10.15	43	238499	2.449	ppbv #	91
52) Tetrachloroethene	11.24	164	8325m	0.061	ppbv	
53) Toluene	9.82	91	547654	1.381	ppbv	98
58) Ethyl Benzene	12.72	91	298530	0.600	ppbv	96
59) m/p-Xylene	12.98	91	693500	1.599	ppbv	96
60) o-Xylene	13.70	91	350924	0.850	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	167013m	0.359	ppbv	
79) Naphthalene	22.20	128	85001m	0.298	ppbv	

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

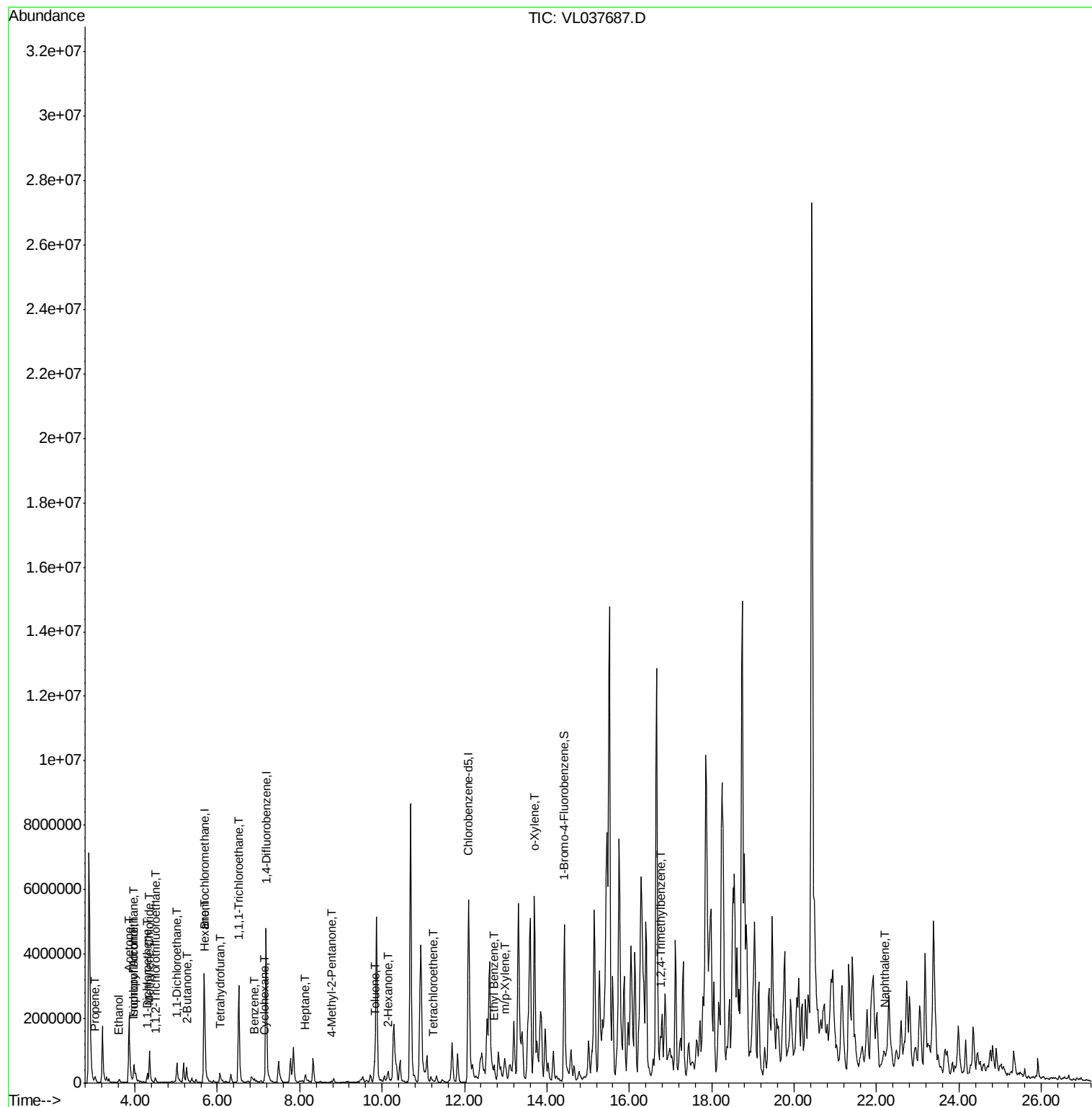
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
Data File : VL037687.D
Acq On : 27 Sep 2021 19:21
Operator : SY/AP
Sample : M3896-03
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

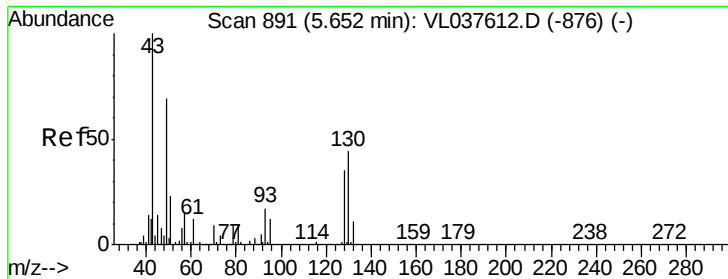
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:16 AM

Quant Time: Sep 28 20:32:25 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

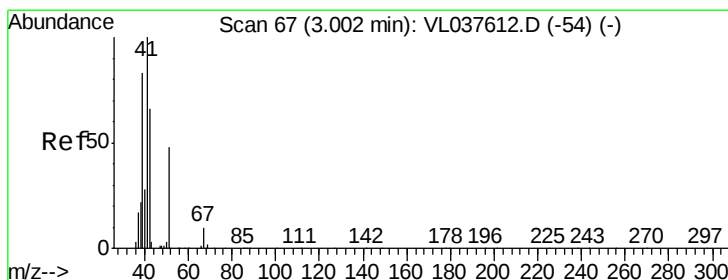
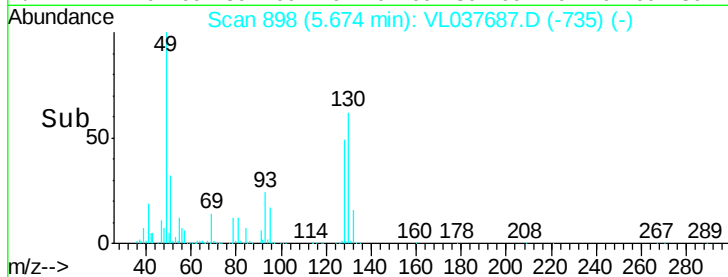
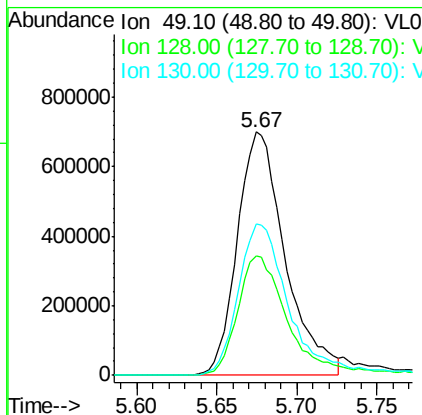
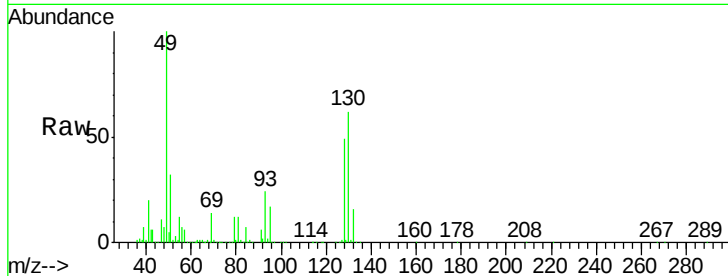
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 898
 Delta R.T. 0.02 min
 Lab File: VL037687.D
 Acq: 27 Sep 2021 19:21

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Tgt Ion: 49 Resp: 1426985
 Ion Ratio Lower Upper
 49 100
 128 53.1 27.9 83.6
 130 67.4 33.9 101.7

Manual Integrations
 APPROVED

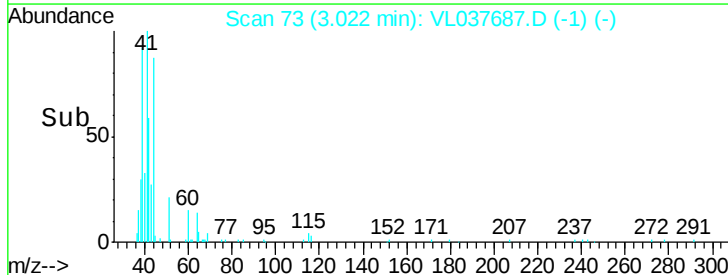
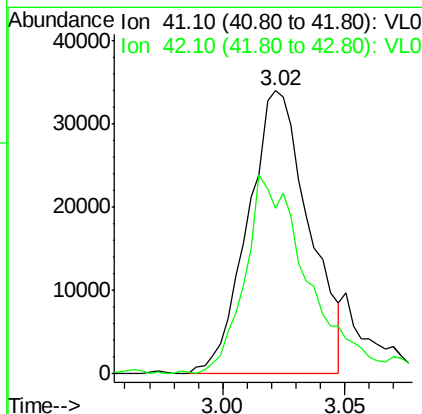
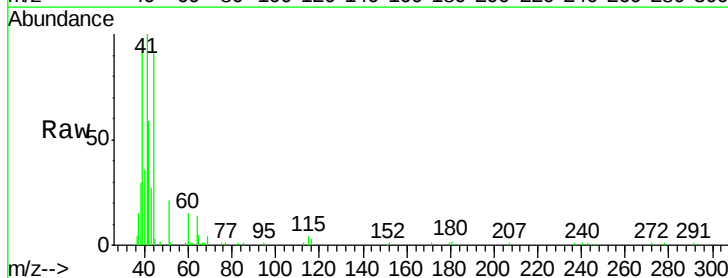
MMDadoda
 10/1/2021 11:05:16 AM

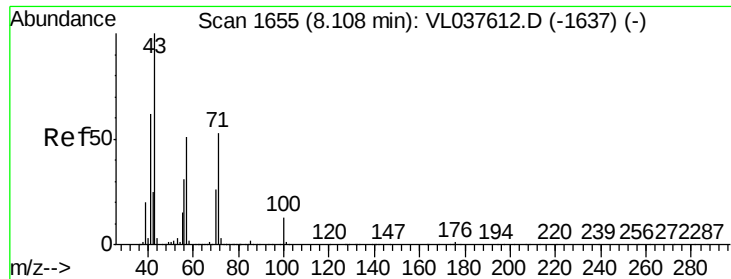


#9

Propene
 Concen: 0.621 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. 0.02 min
 Lab File: VL037687.D
 Acq: 27 Sep 2021 19:21

Tgt Ion: 41 Resp: 58936
 Ion Ratio Lower Upper
 41 100
 42 74.4 57.2 85.8





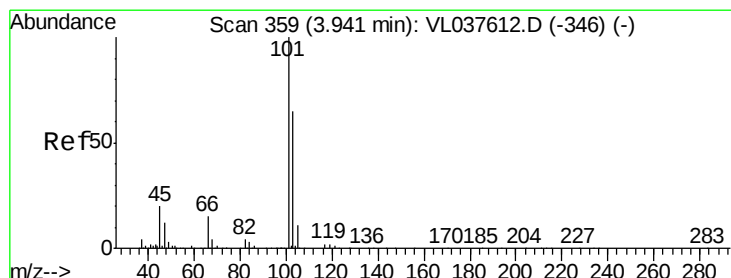
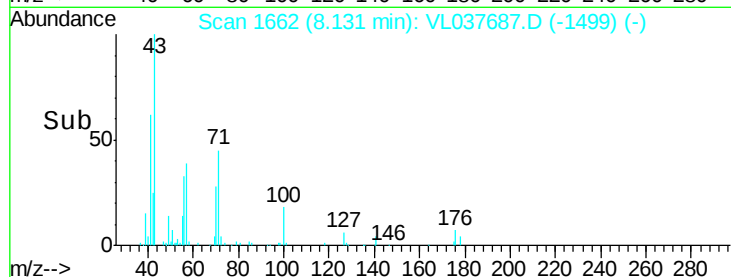
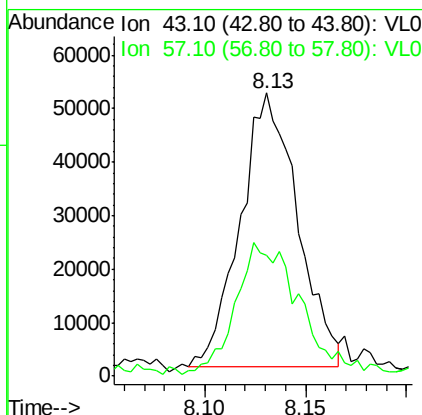
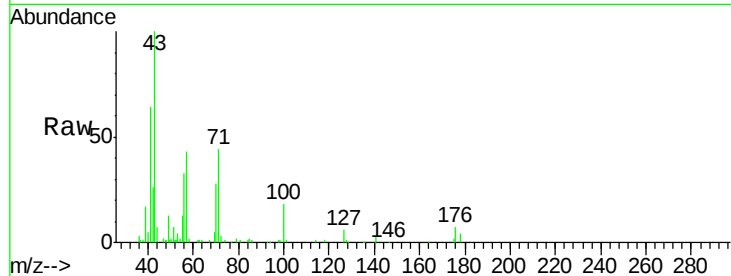
#10
Heptane
Concen: 0.457 ppbv
RT: 8.13 min Scan# 1662
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion: 43 Resp: 101169
Ion Ratio Lower Upper
43 100
57 55.4 40.1 60.1

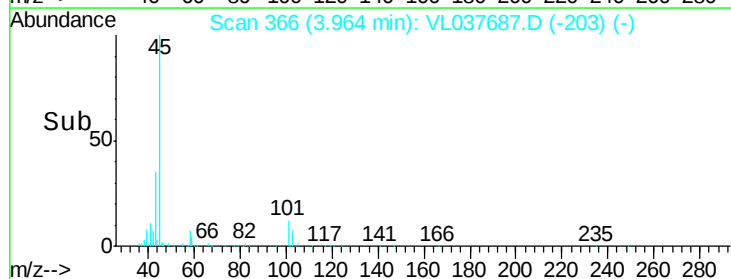
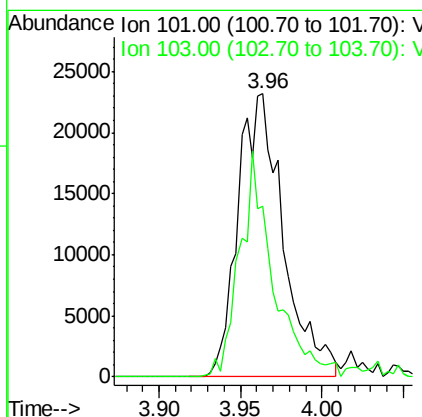
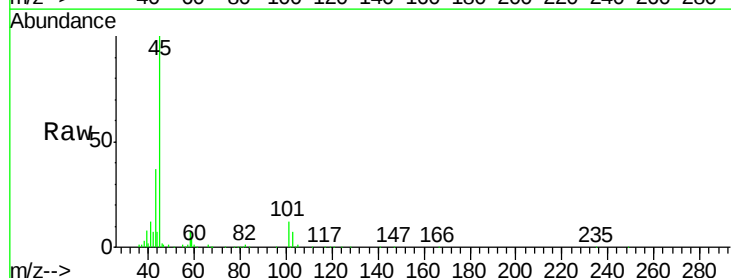
Manual Integrations
APPROVED

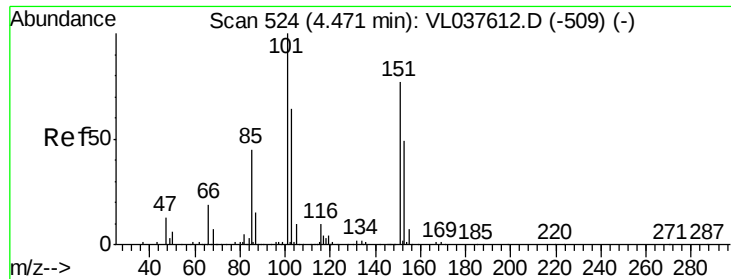
MMDadoda
10/1/2021 11:05:16 AM



#11
Trichlorofluoromethane
Concen: 0.217 ppbv m
RT: 3.96 min Scan# 366
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Tgt Ion: 101 Resp: 44956
Ion Ratio Lower Upper
101 100
103 60.5 51.9 77.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.356 ppbv m

RT: 4.50 min Scan# 532

Delta R.T. 0.03 min

Lab File: VL037687.D

Acq: 27 Sep 2021 19:21

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tgt Ion: 101 Resp: 54504

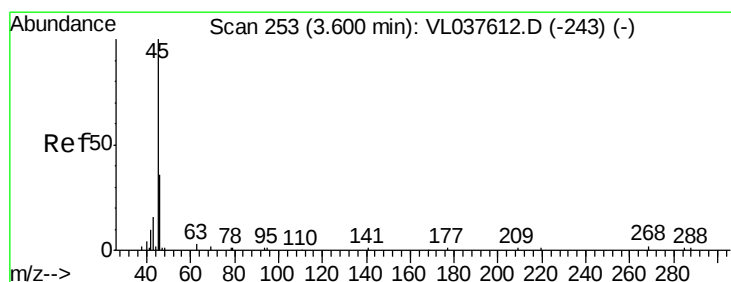
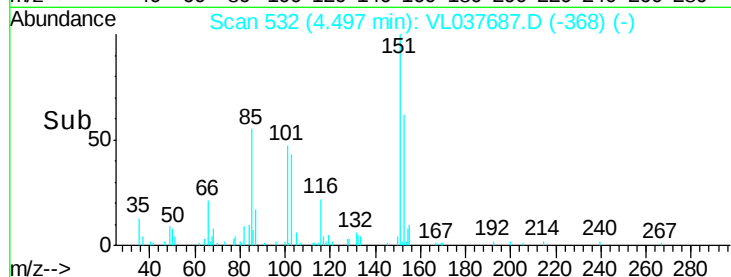
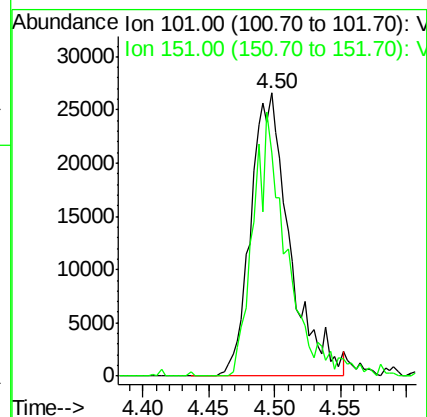
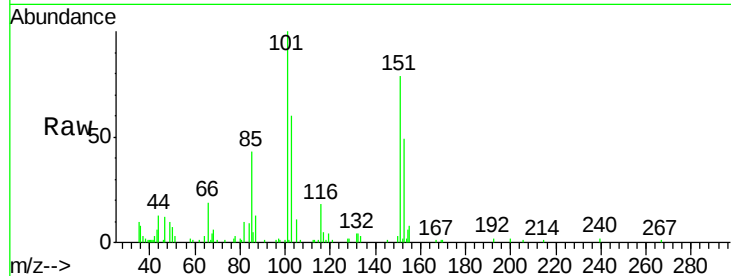
Ion Ratio Lower Upper

101 100

151 0.0 63.5 95.3#

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:16 AM



#13

Ethanol

Concen: 15.037 ppbv m

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL037687.D

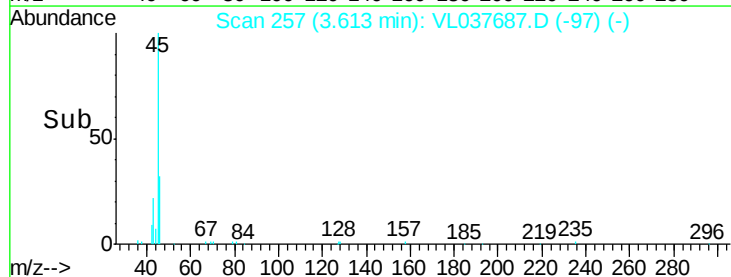
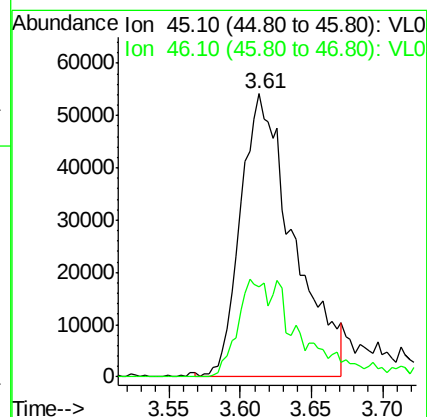
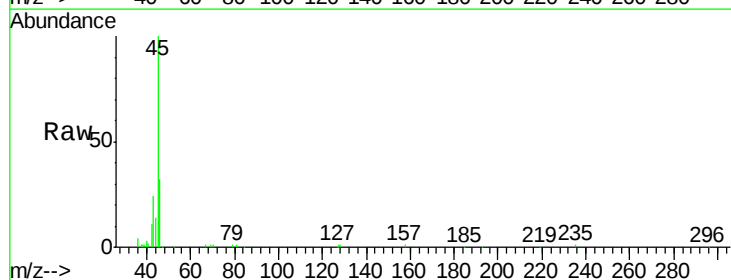
Acq: 27 Sep 2021 19:21

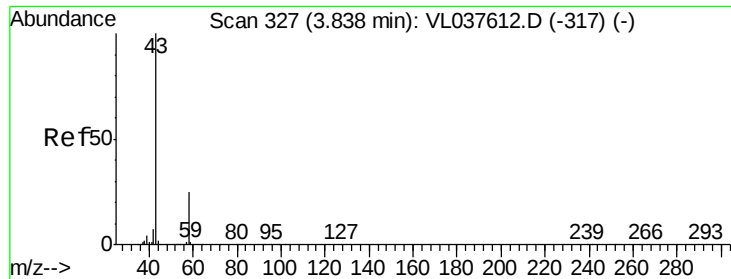
Tgt Ion: 45 Resp: 139646

Ion Ratio Lower Upper

45 100

46 40.7 17.2 68.8





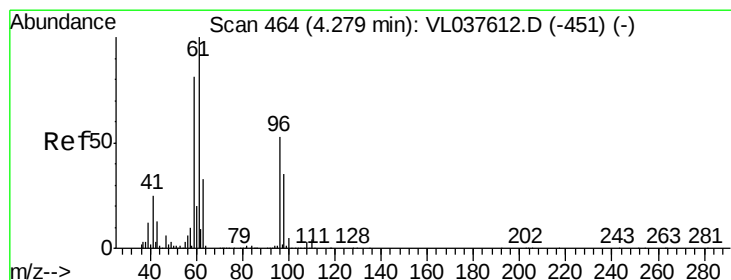
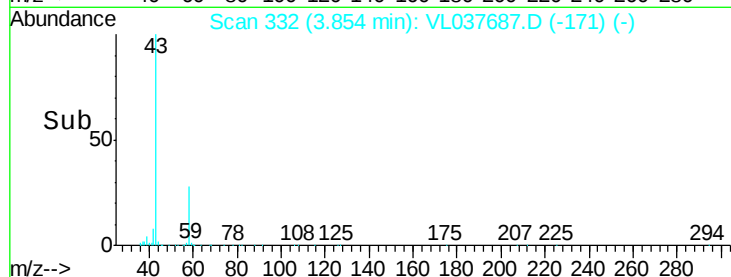
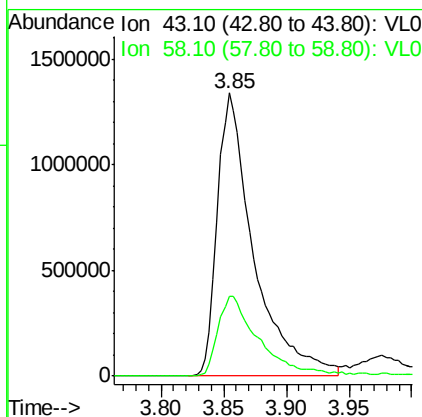
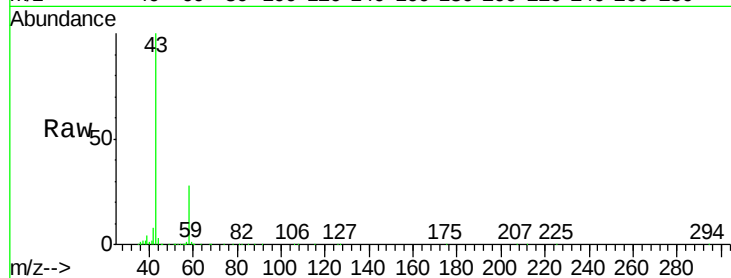
#15
Acetone
Concen: 18.193 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion: 43 Resp: 2697319
Ion Ratio Lower Upper
43 100
58 32.5 24.9 37.3

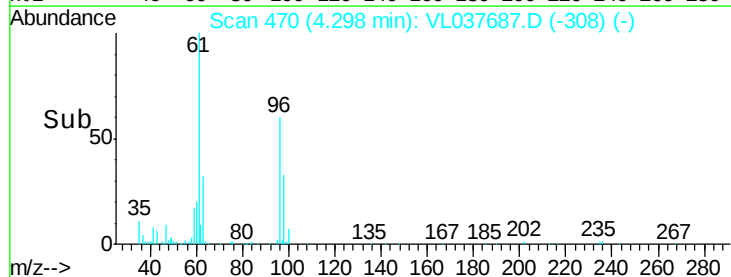
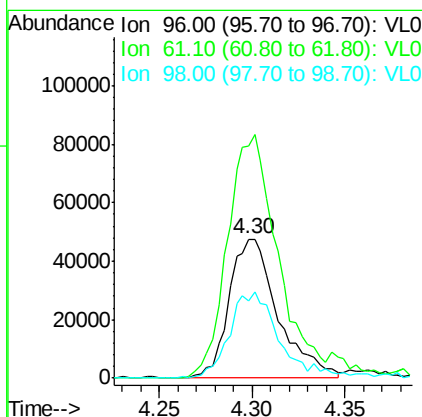
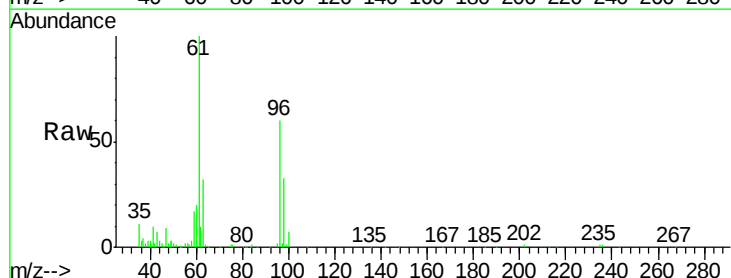
Manual Integrations
APPROVED

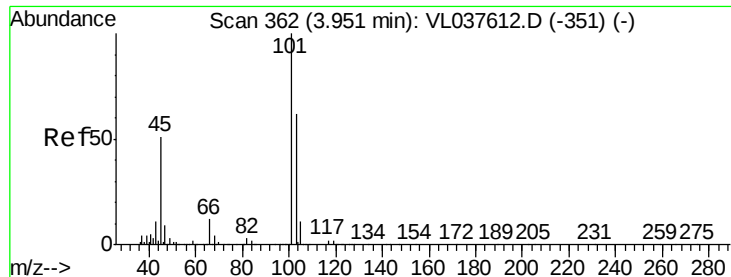
MMDadoda
10/1/2021 11:05:16 AM



#18
1,1-Dichloroethene
Concen: 1.221 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Tgt Ion: 96 Resp: 87007
Ion Ratio Lower Upper
96 100
61 165.9 150.4 225.6
98 54.9 52.1 78.1





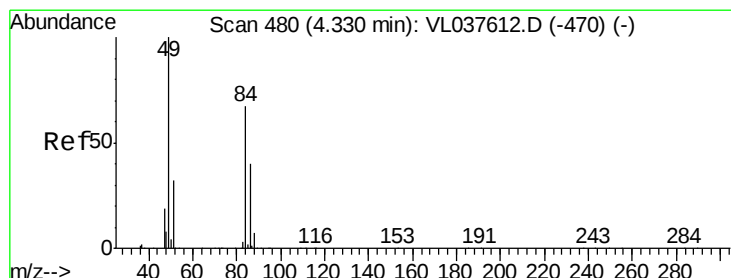
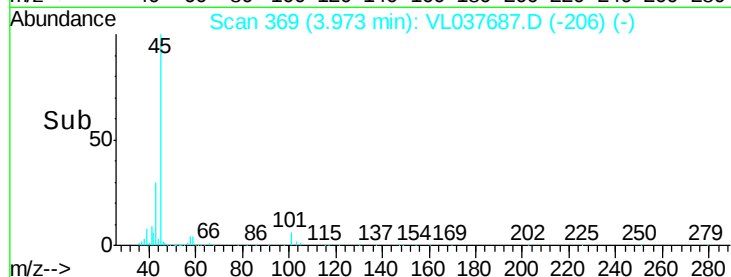
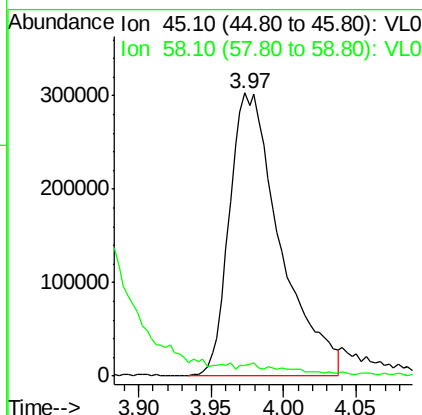
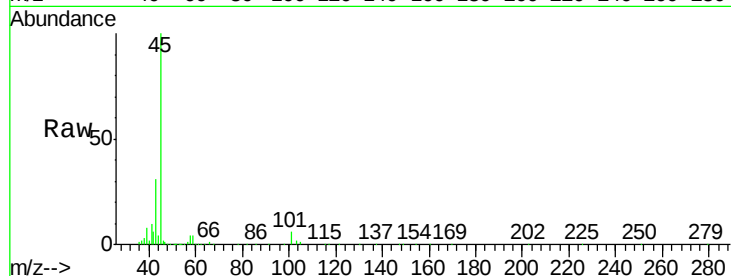
#19
Isopropyl Alcohol
Concen: 9.111 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion: 45 Resp: 734960
Ion Ratio Lower Upper
45 100
58 125.2 2.9 4.3#

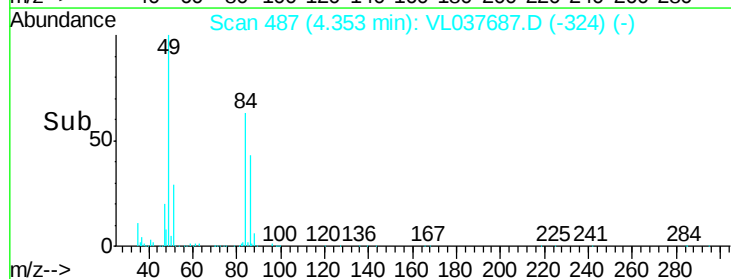
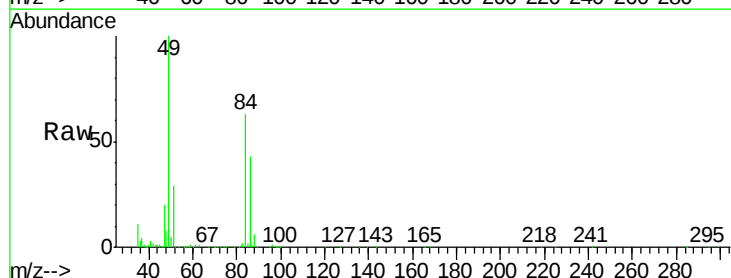
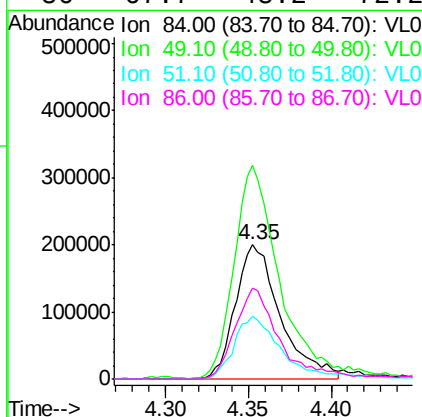
Manual Integrations
APPROVED

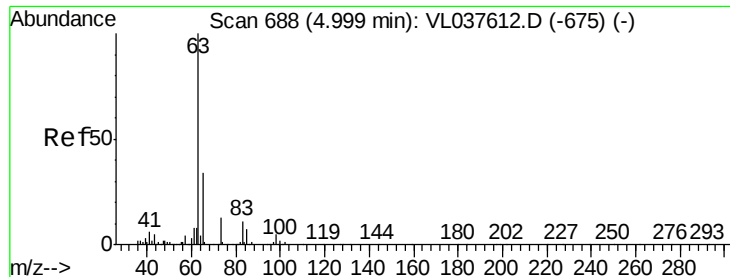
MMDadoda
10/1/2021 11:05:16 AM



#20
Methylene Chloride
Concen: 5.344 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Tgt Ion: 84 Resp: 378255
Ion Ratio Lower Upper
84 100
49 158.8 120.0 180.0
51 46.5 38.0 57.0
86 67.7 48.2 72.2





#24

1,1-Dichloroethane

Concen: 4.164 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.02 min

Lab File: VL037687.D

Acq: 27 Sep 2021 19:21

Instrument :

MSVOA_L

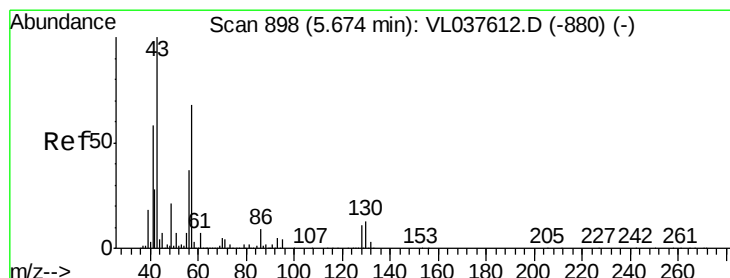
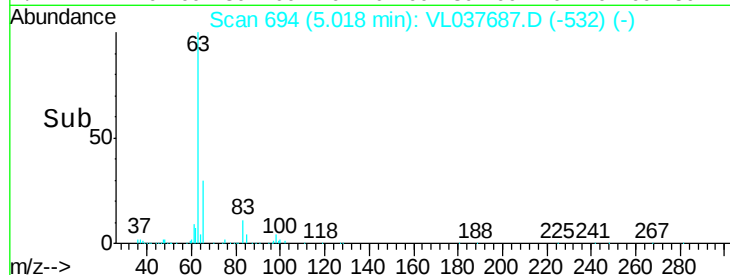
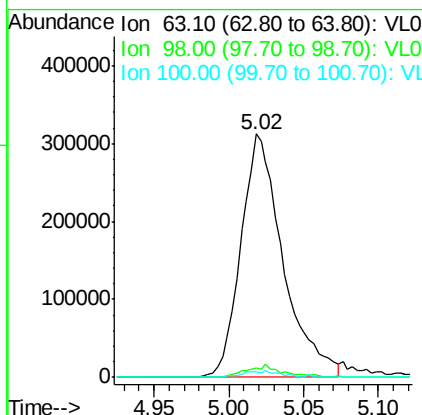
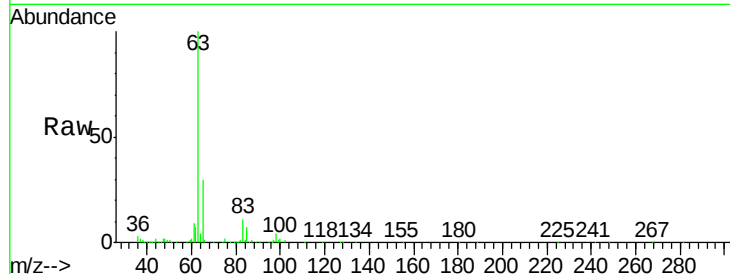
ClientSampleId :

EFFLUENT

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	611990		
98	4.1	2.4	7.2	
100	2.3	1.1	3.5	

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:16 AM



#26

Hexane

Concen: 2.548 ppbv

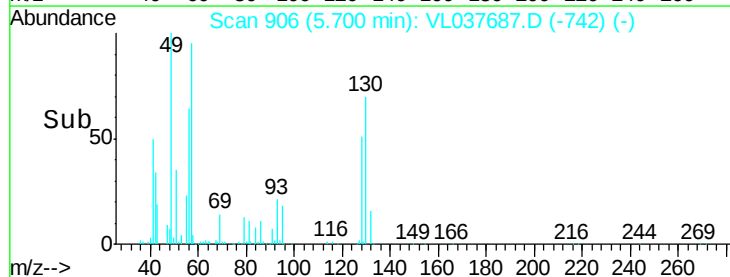
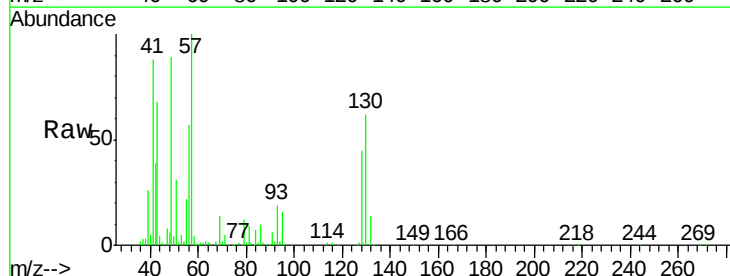
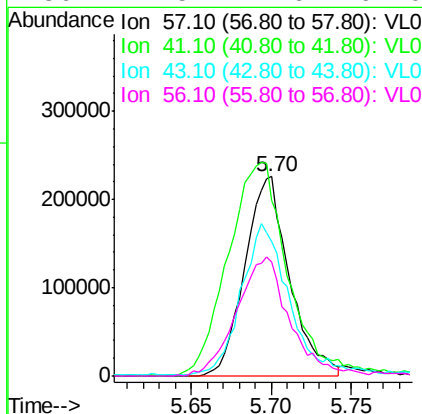
RT: 5.70 min Scan# 906

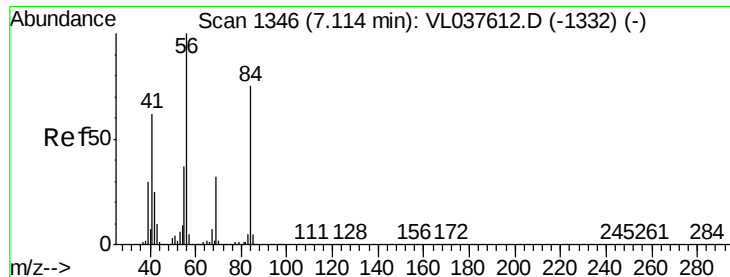
Delta R.T. 0.03 min

Lab File: VL037687.D

Acq: 27 Sep 2021 19:21

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	434584		
41	145.1	70.9	106.3#	
43	86.6	170.4	255.6#	
56	72.5	42.6	64.0#	





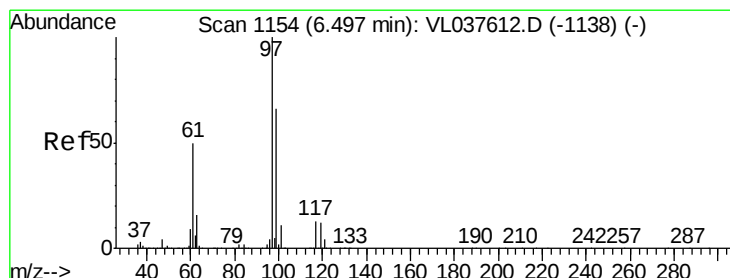
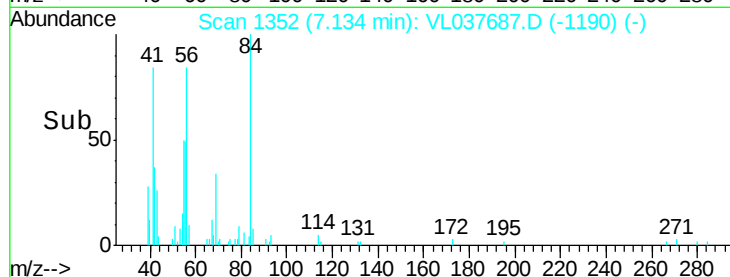
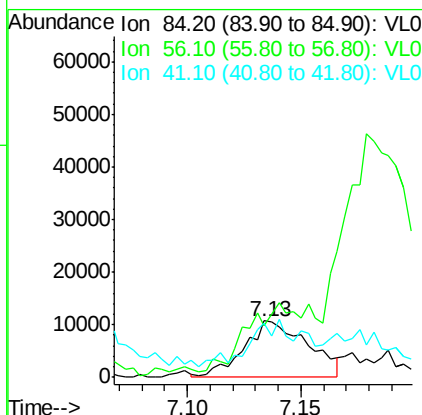
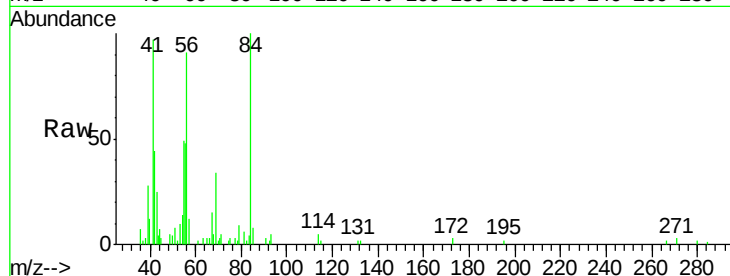
#30
Cyclohexane
Concen: 0.144 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.6	170.4#
41	174.8	67.9	101.9#

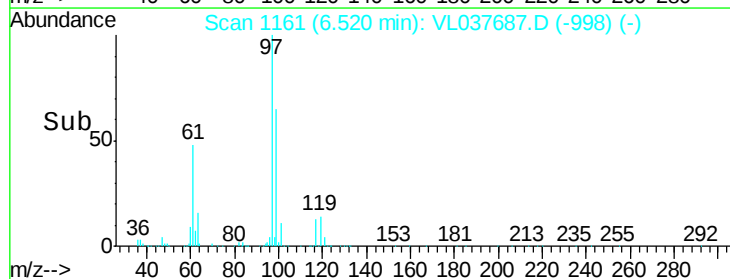
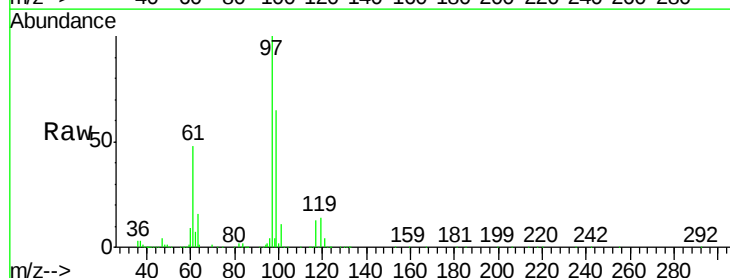
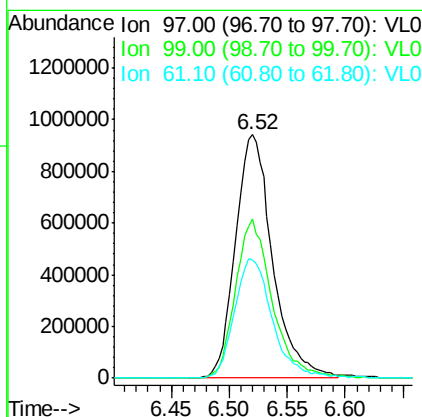
Manual Integrations
APPROVED

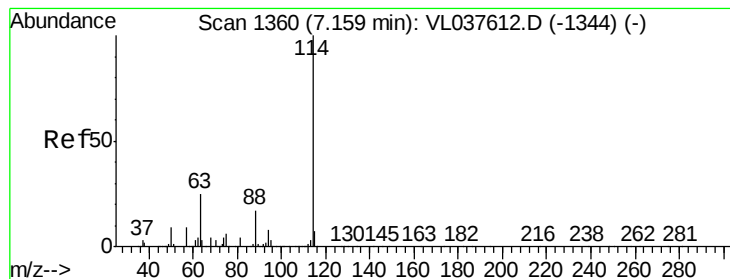
MMDadoda
10/1/2021 11:05:16 AM



#32
1,1,1-Trichloroethane
Concen: 9.057 ppbv
RT: 6.52 min Scan# 1161
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.3	78.5
61	50.3	39.5	59.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.02 min

Lab File: VL037687.D

Acq: 27 Sep 2021 19:21

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tgt Ion: 114 Resp: 4279432

Ion Ratio Lower Upper

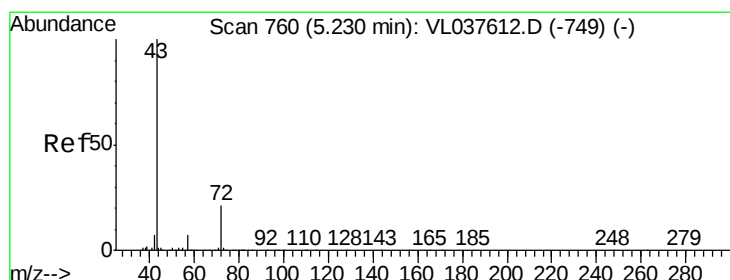
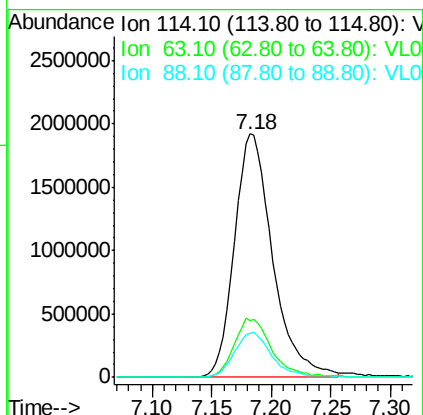
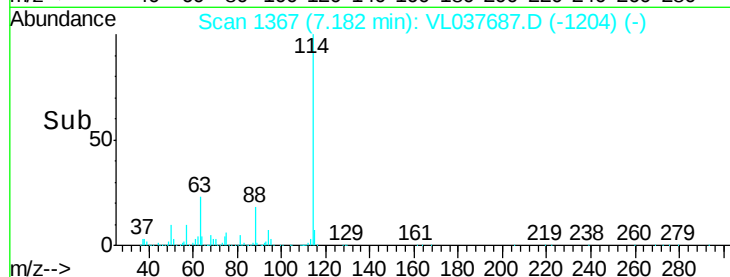
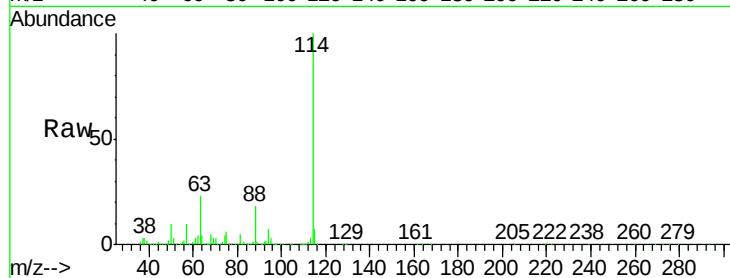
114 100

63 24.3 19.6 29.4

88 18.4 14.2 21.4

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:16 AM



#34

2-Butanone

Concen: 3.575 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.02 min

Lab File: VL037687.D

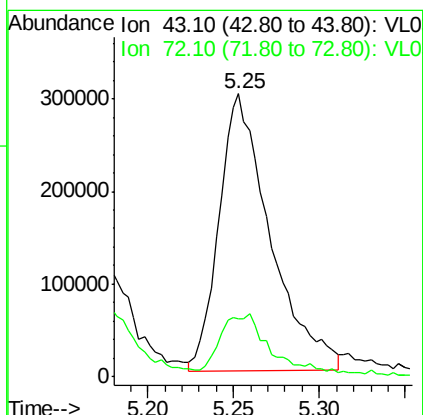
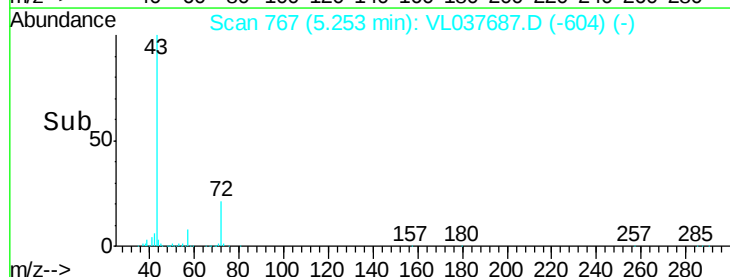
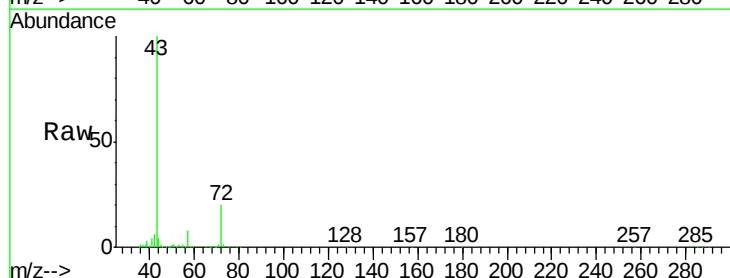
Acq: 27 Sep 2021 19:21

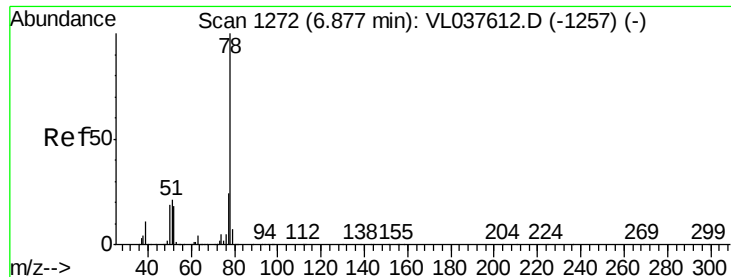
Tgt Ion: 43 Resp: 621687

Ion Ratio Lower Upper

43 100

72 25.1 18.4 27.6





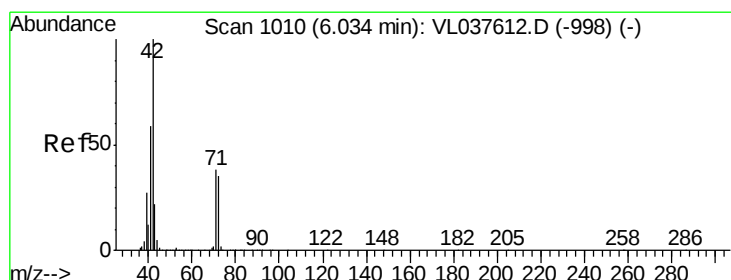
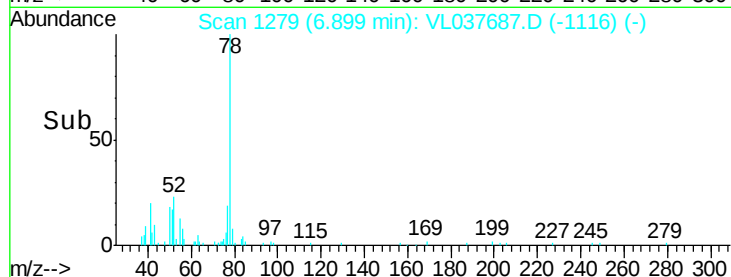
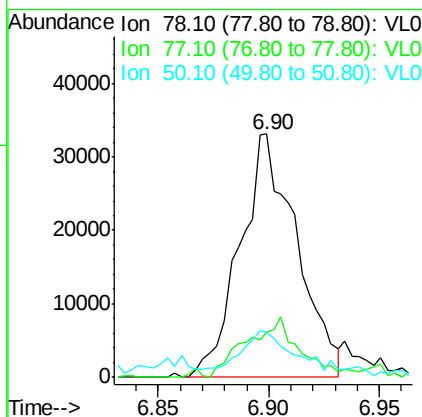
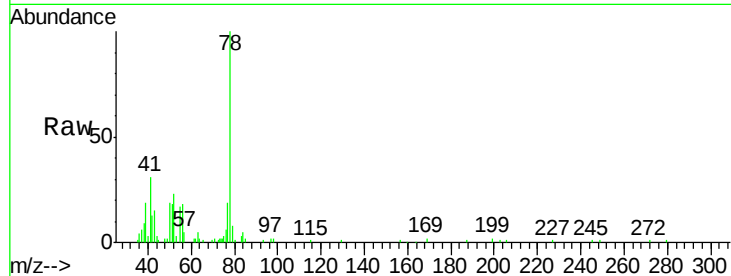
#36
Benzene
Concen: 0.166 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.5	19.0	28.4#
50	15.3	14.8	22.2

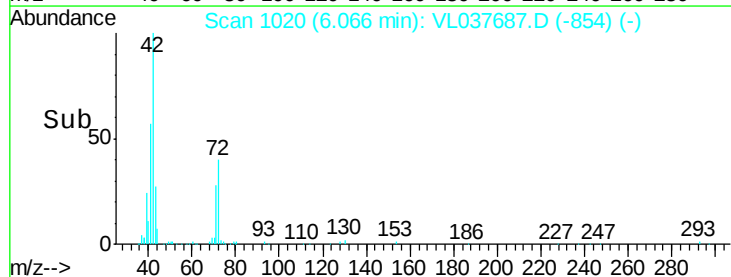
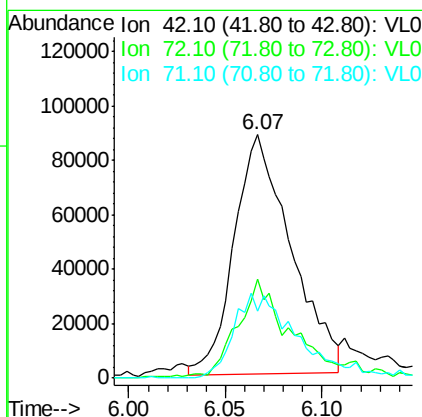
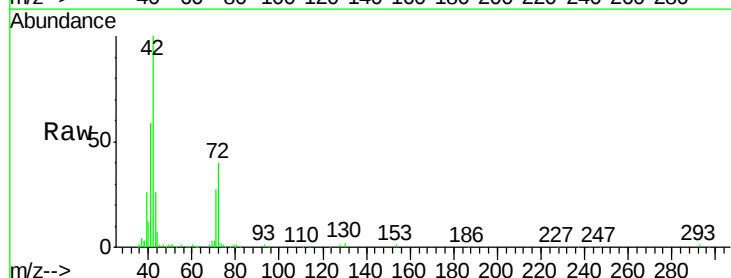
Manual Integrations
APPROVED

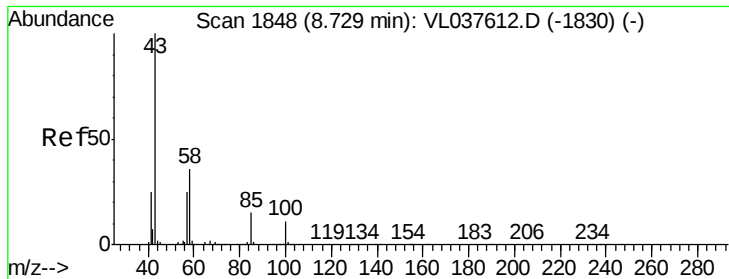
MMDadoda
10/1/2021 11:05:16 AM



#41
Tetrahydrofuran
Concen: 2.205 ppbv
RT: 6.07 min Scan# 1020
Delta R.T. 0.03 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Tgt Ion	Ratio	Lower	Upper
42	100		
72	42.5	31.4	47.2
71	38.9	30.6	46.0





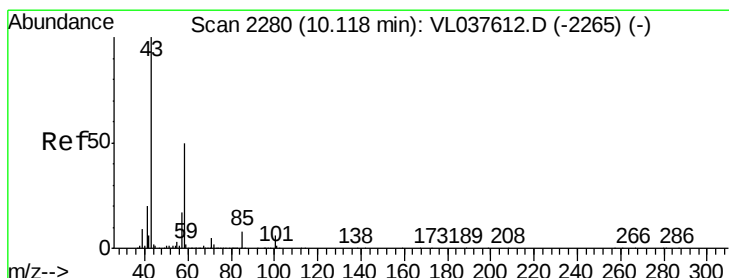
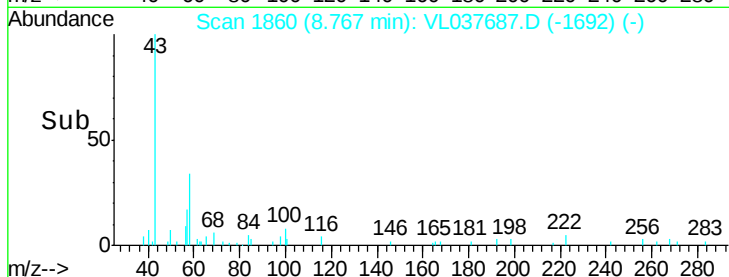
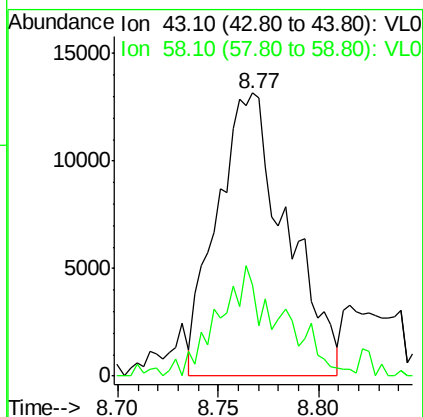
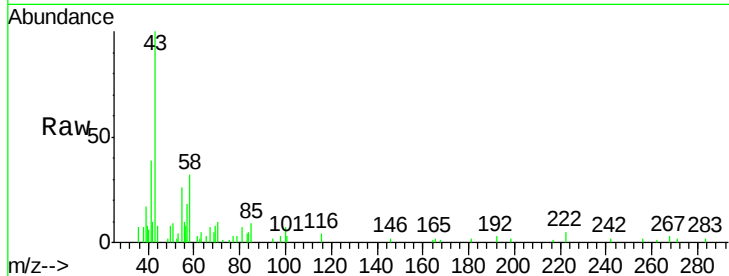
#50
 4-Methyl-2-Pentanone
 Concen: 0.144 ppbv m
 RT: 8.77 min Scan# 1860
 Delta R.T. 0.04 min
 Lab File: VL037687.D
 Acq: 27 Sep 2021 19:21

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Tgt Ion: 43 Resp: 31747
 Ion Ratio Lower Upper
 43 100
 58 35.6 29.4 44.2

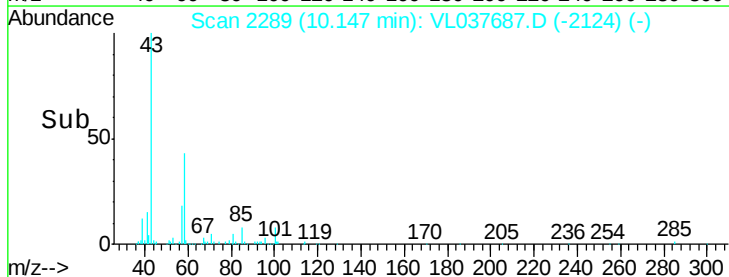
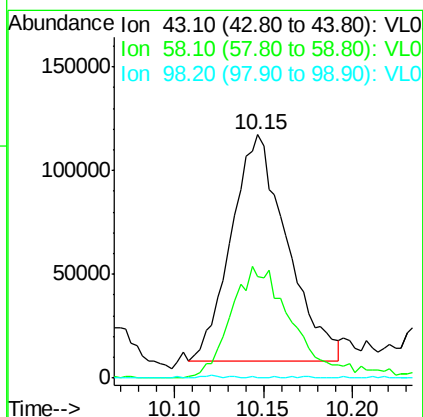
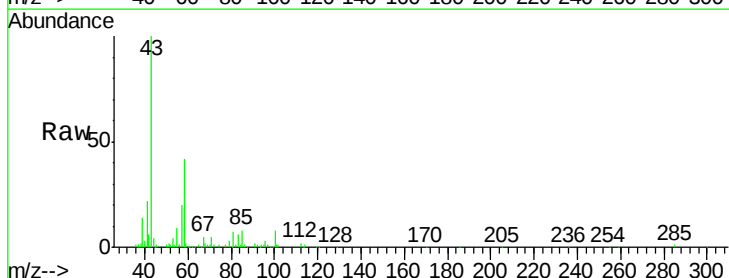
Manual Integrations
 APPROVED

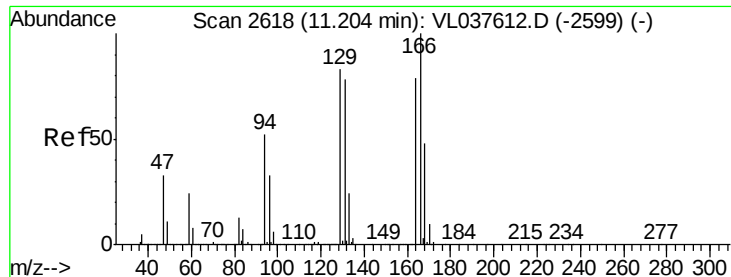
MMDadoda
 10/1/2021 11:05:16 AM



#51
 2-Hexanone
 Concen: 2.449 ppbv
 RT: 10.15 min Scan# 2289
 Delta R.T. 0.03 min
 Lab File: VL037687.D
 Acq: 27 Sep 2021 19:21

Tgt Ion: 43 Resp: 238499
 Ion Ratio Lower Upper
 43 100
 58 55.6 39.3 58.9
 98 0.8 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.061 ppbv m

RT: 11.24 min Scan# 2629

Delta R.T. 0.04 min

Lab File: VL037687.D

Acq: 27 Sep 2021 19:21

Instrument :

MSVOA_L

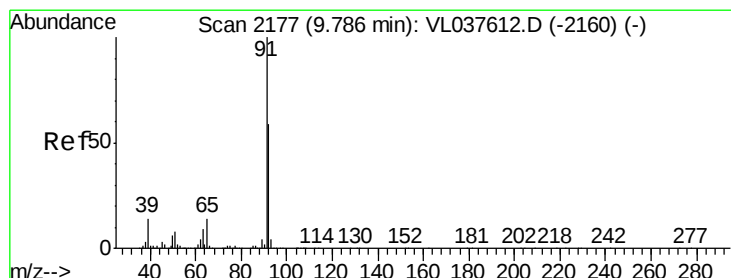
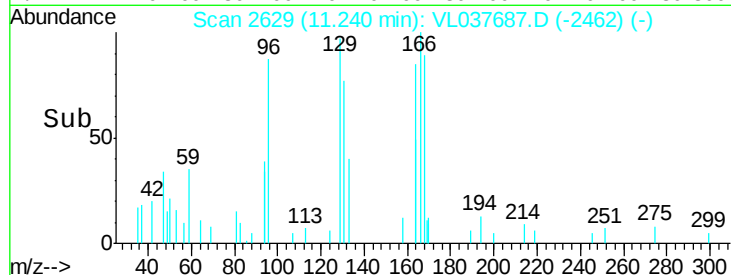
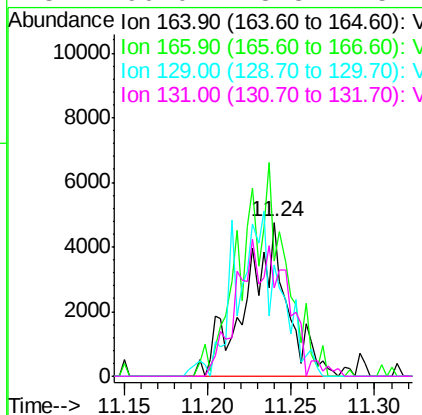
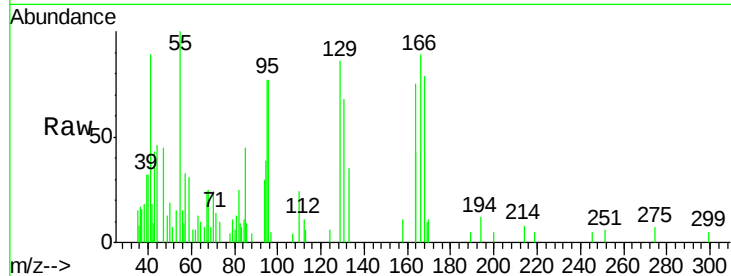
ClientSampleId :

EFFLUENT

Tgt Ion:	164	Resp:	8325
Ion Ratio	Lower	Upper	
164	100		
166	117.6	101.2	151.8
129	113.5	84.0	126.0
131	90.0	78.8	118.2

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:16 AM



#53

Toluene

Concen: 1.381 ppbv

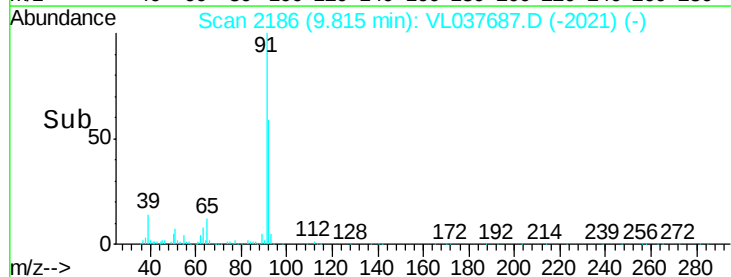
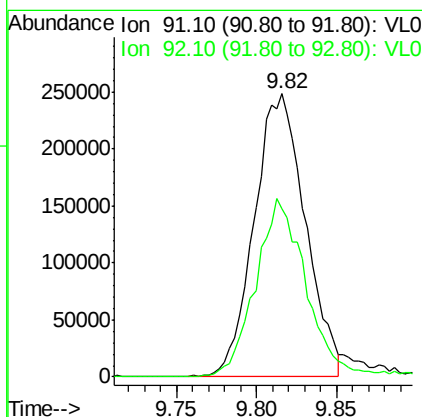
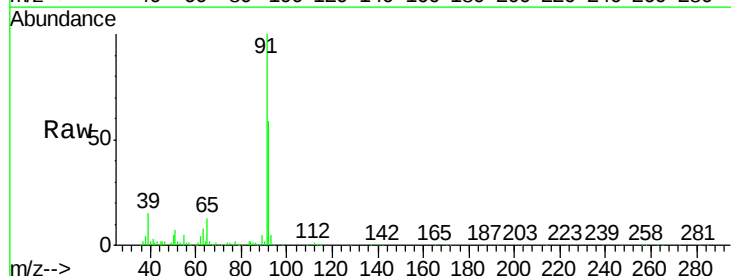
RT: 9.82 min Scan# 2186

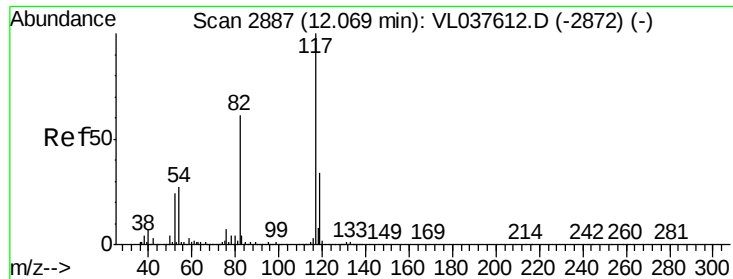
Delta R.T. 0.03 min

Lab File: VL037687.D

Acq: 27 Sep 2021 19:21

Tgt Ion:	91	Resp:	547654
Ion Ratio	Lower	Upper	
91	100		
92	62.9	48.9	73.3





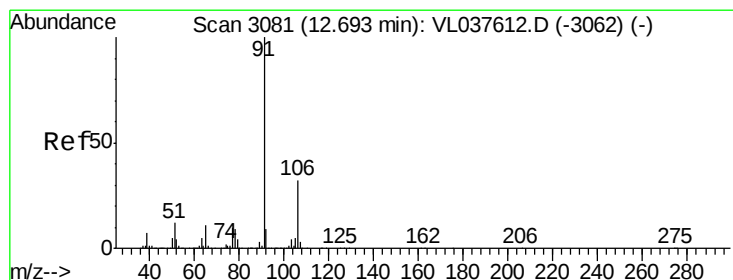
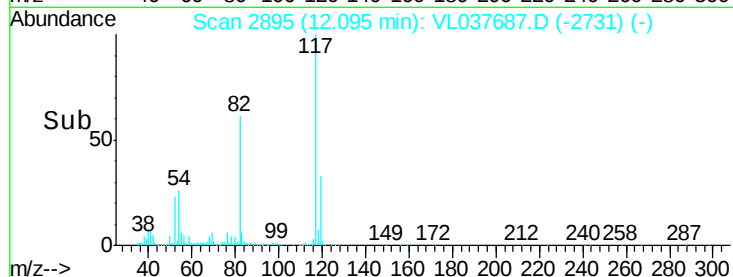
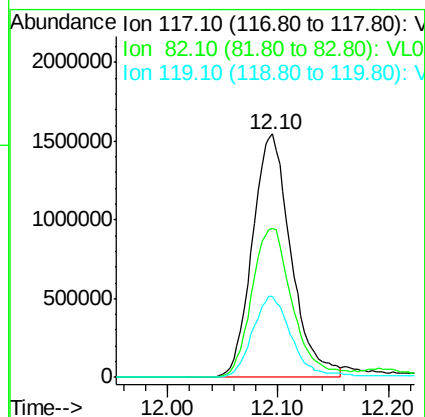
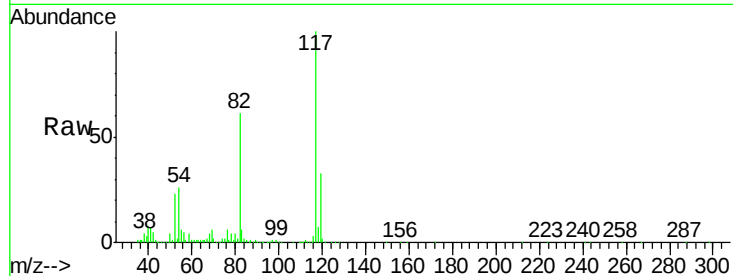
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. 0.03 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion: 117 Resp: 3748154
Ion Ratio Lower Upper
117 100
82 64.5 50.6 75.8
119 34.9 26.2 39.2

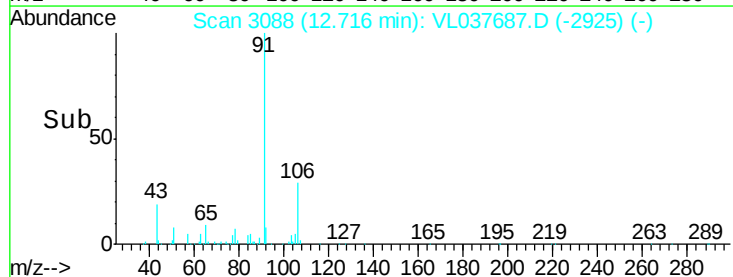
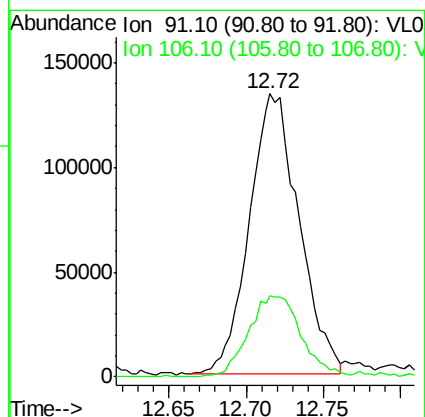
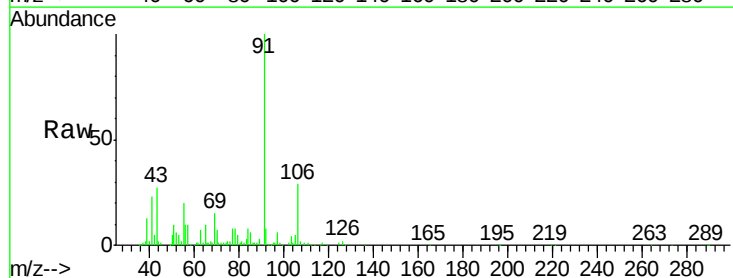
Manual Integrations
APPROVED

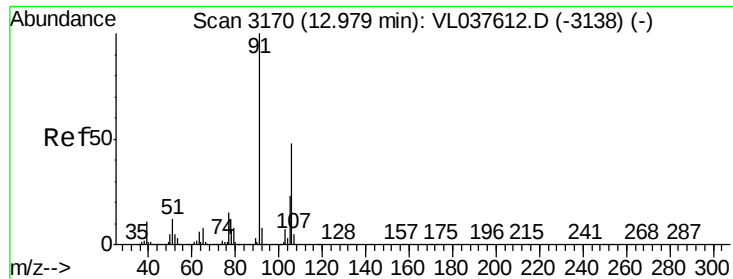
MMDadoda
10/1/2021 11:05:16 AM



#58
Ethyl Benzene
Concen: 0.600 ppbv
RT: 12.72 min Scan# 3088
Delta R.T. 0.02 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Tgt Ion: 91 Resp: 298530
Ion Ratio Lower Upper
91 100
106 29.2 25.3 37.9





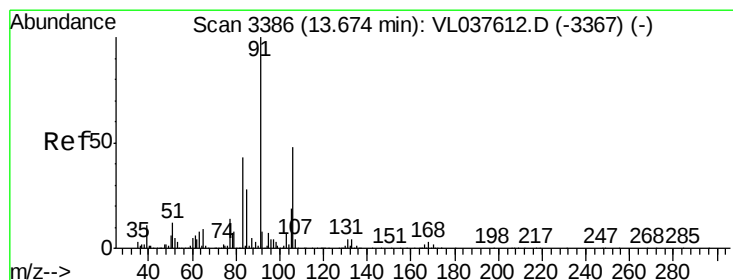
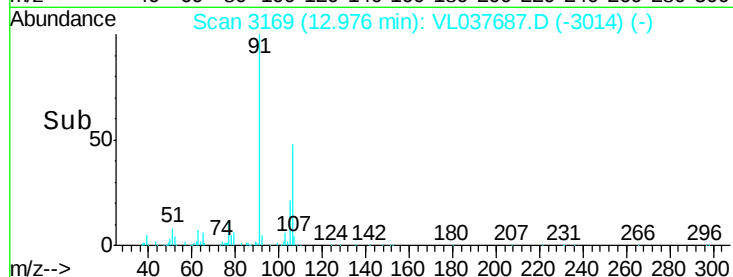
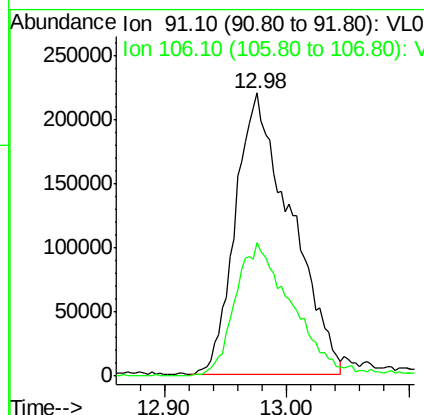
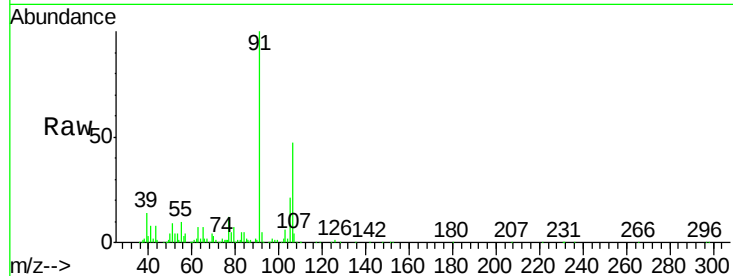
#59
m/p-Xylene
Concen: 1.599 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Instrument :
MSVOA_L
ClientSampled :
EFFLUENT

Tgt Ion: 91 Resp: 693500
Ion Ratio Lower Upper
91 100
106 48.6 36.6 55.0

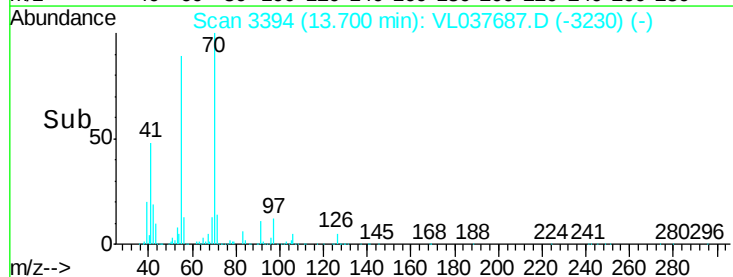
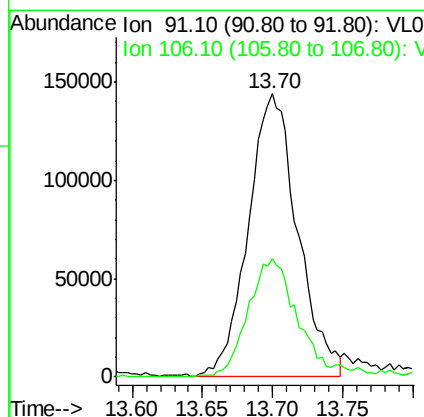
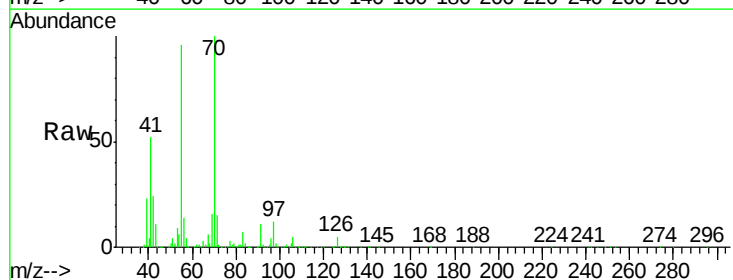
Manual Integrations
APPROVED

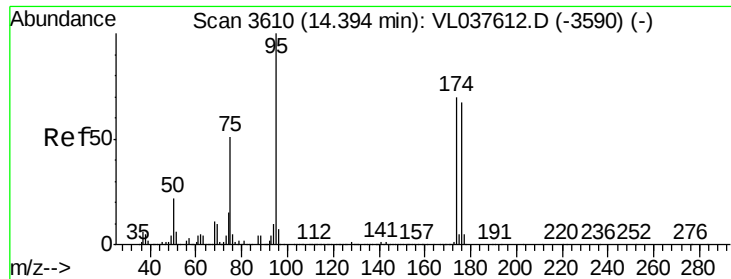
MMDadoda
10/1/2021 11:05:16 AM



#60
o-Xylene
Concen: 0.850 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. 0.03 min
Lab File: VL037687.D
Acq: 27 Sep 2021 19:21

Tgt Ion: 91 Resp: 350924
Ion Ratio Lower Upper
91 100
106 44.7 23.0 69.0





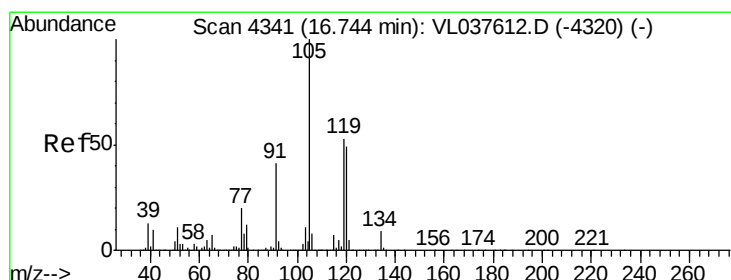
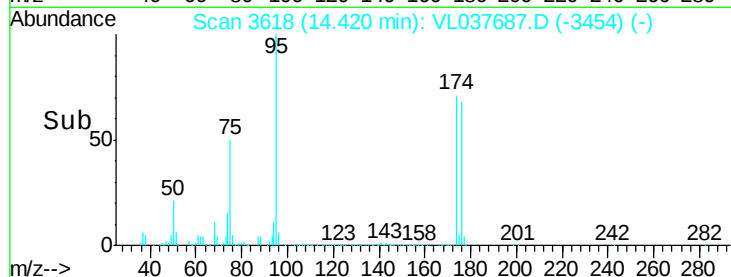
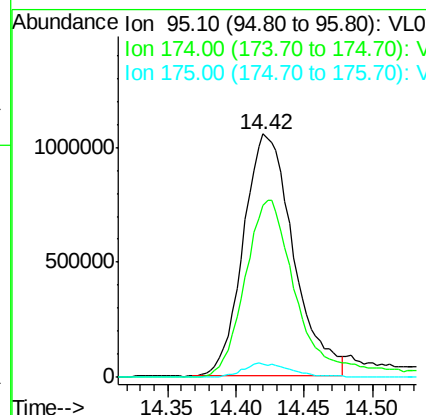
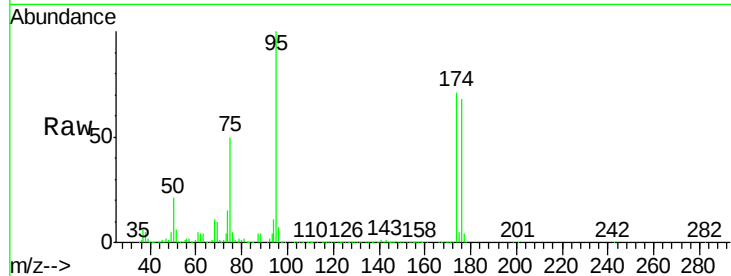
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.953 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T. 0.03 min
 Lab File: VL037687.D
 Acq: 27 Sep 2021 19:21

Instrument :
 MSVOA_L
 ClientSampled :
 EFFLUENT

Tgt Ion: 95 Resp: 2696184
 Ion Ratio Lower Upper
 95 100
 174 79.7 56.3 84.5
 175 6.1 4.4 6.6

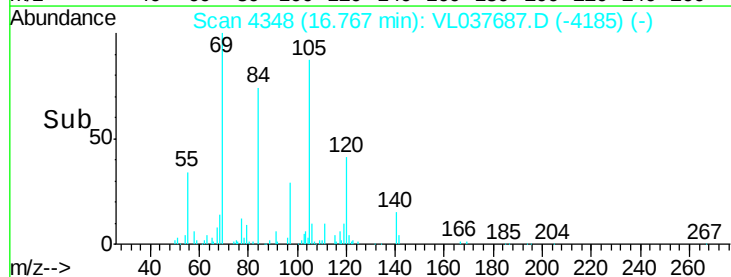
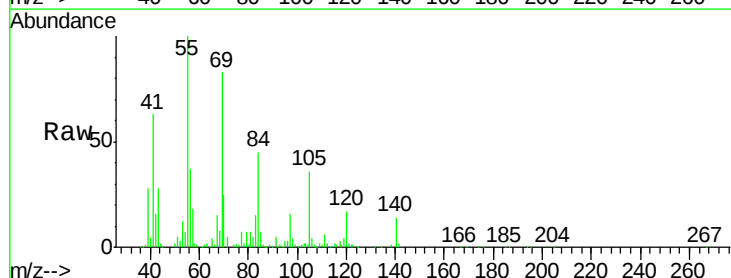
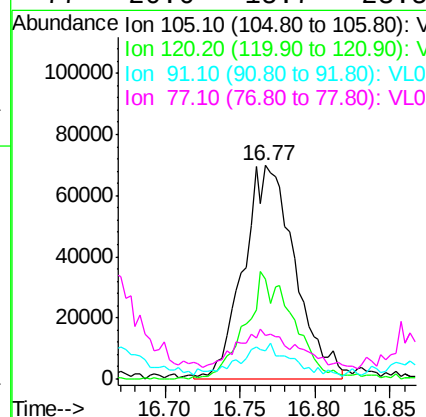
Manual Integrations
 APPROVED

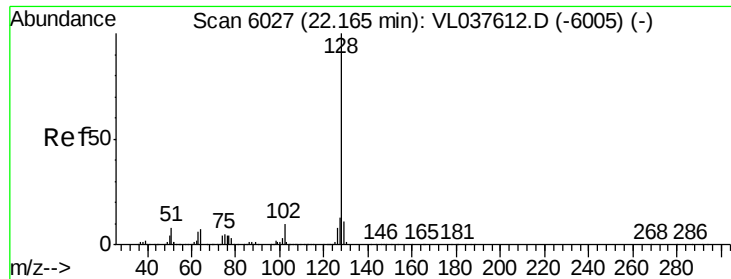
MMDadoda
 10/1/2021 11:05:16 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.359 ppbv m
 RT: 16.77 min Scan# 4348
 Delta R.T. 0.02 min
 Lab File: VL037687.D
 Acq: 27 Sep 2021 19:21

Tgt Ion: 105 Resp: 167013
 Ion Ratio Lower Upper
 105 100
 120 46.7 39.4 59.0
 91 12.9 33.3 49.9#
 77 20.6 15.7 23.5





#79

Naphthalene

Concen: 0.298 ppbv m

RT: 22.20 min Scan# 6039

Delta R.T. 0.04 min

Lab File: VL037687.D

Acq: 27 Sep 2021 19:21

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tgt Ion:	128	Resp:	85001
Ion Ratio	Lower	Upper	
128	100		
127	11.4	10.6	16.0
129	10.9	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:16 AM

